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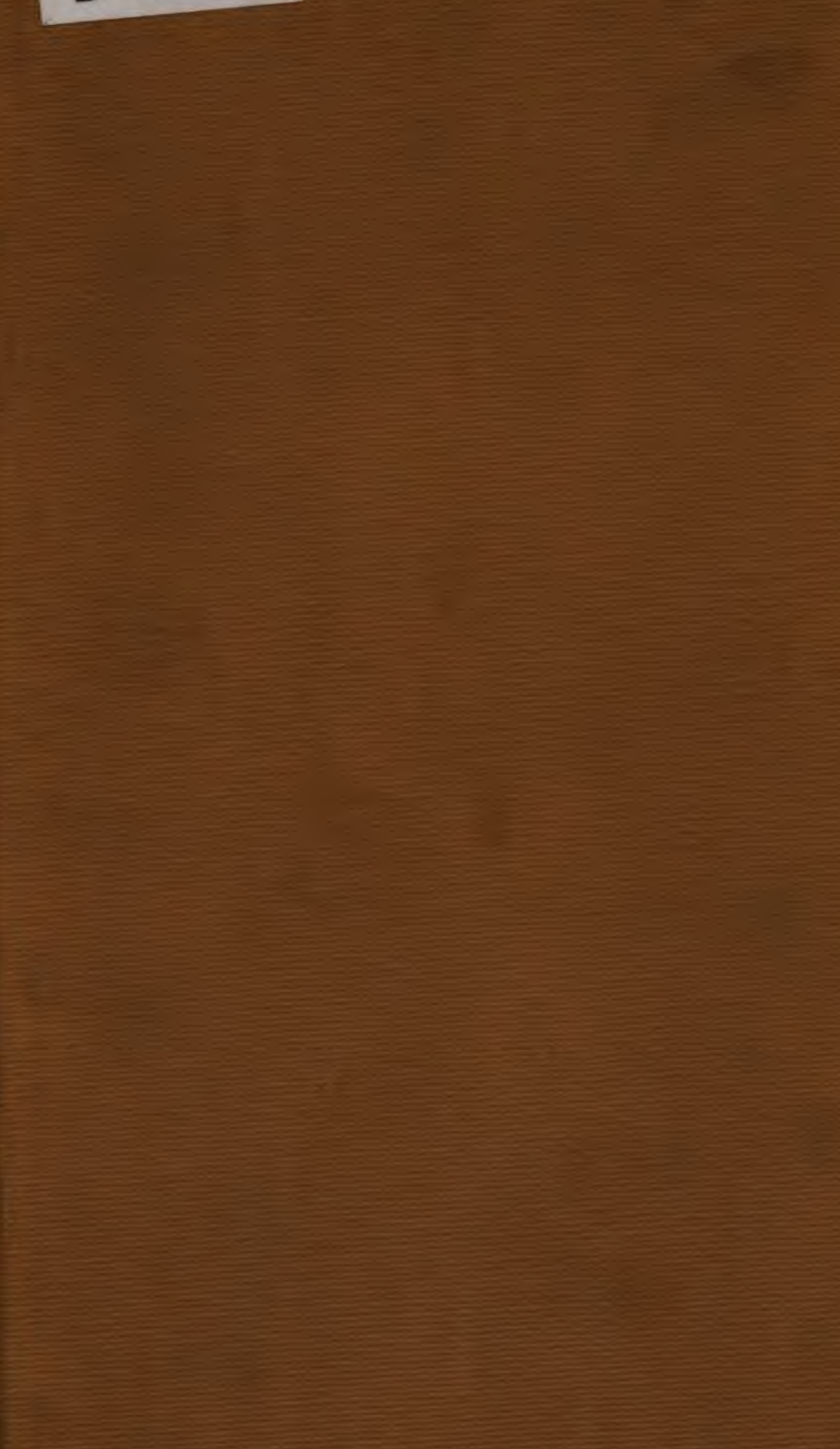
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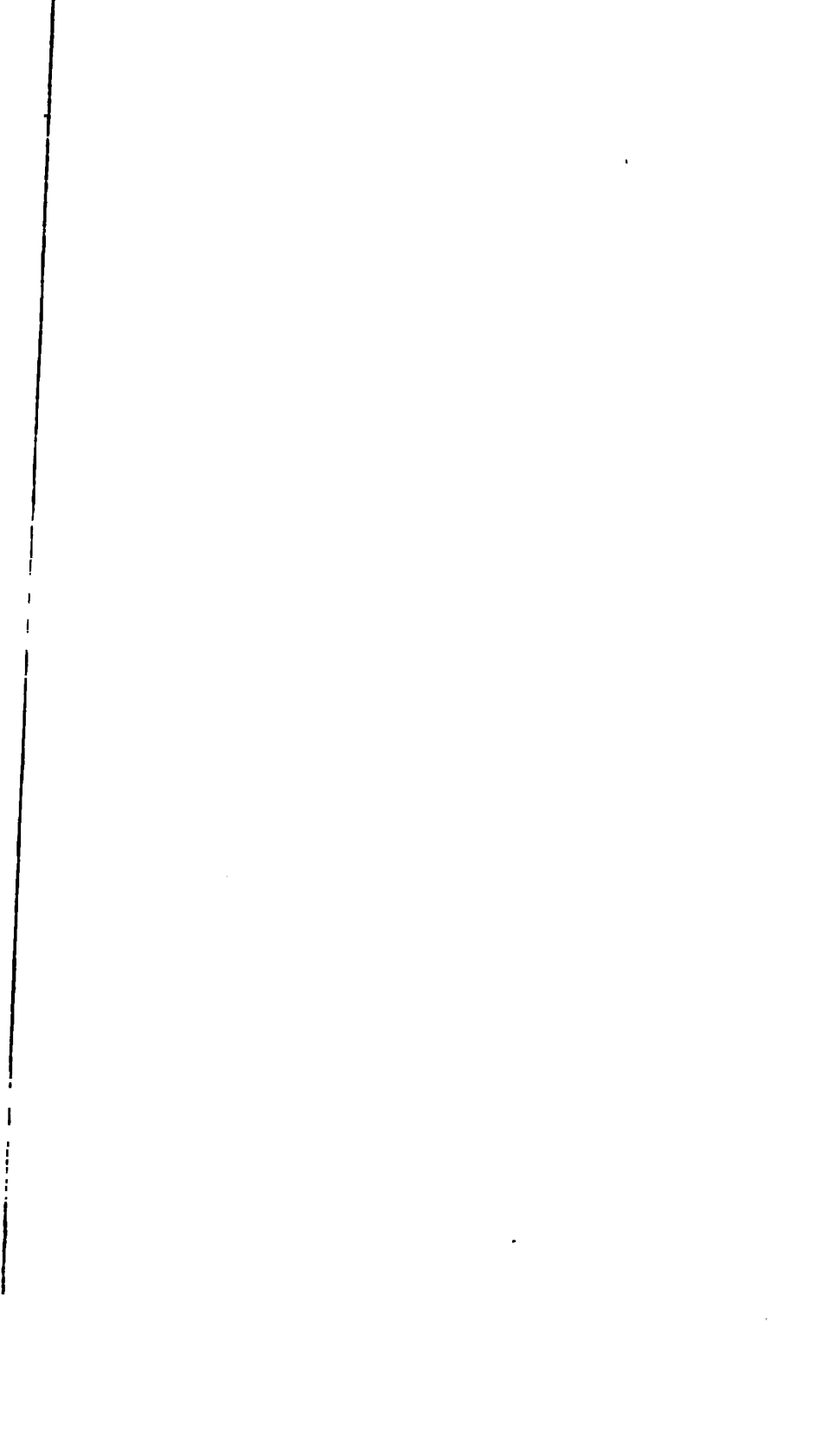




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DOCUMENTS  
OF THE  
ASSEMBLY  
OF THE  
STATE OF NEW-YORK,  
SEVENTY-FIFTH SESSION.  
1852.

VOLUME 4.

No. 90.



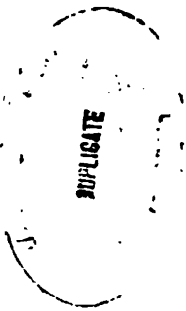
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# **State of New-York.**

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**No. 90.**

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**IN ASSEMBLY, MAR. 4, 1852.**

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## **ANNUAL REPORT**

**Of the State Engineer and Surveyor, on the Canals  
of New-York, for 1851.**

**STATE ENGINEER AND SURVEYOR'S OFFICE, }**  
*Albany, March 4, 1852. }*

**To the HON. JONAS C. HEARTT,**

*Speaker of the Assembly:*

Sir—I have the honor to transmit herewith to the Legislature, the annual report of the State Engineer and Surveyor on canals, for the year 1851, required by chapter 377, as prepared by my predecessor.

I am, very respectfully,

Your obedient servant,

**WM. J. McALPINE,**

*State Engineer and Surveyor.*



## REPORT.

STATE ENGINEER AND SURVEYOR'S OFFICE, }  
Albany, December 31, 1851. . }

*To the Honorable, the Speaker of the Assembly :*

Sir,—In obedience to the 15th section of chapter 377 of the Laws of 1850, I have the honor to submit the annual report of the State Engineer and Surveyor on the canals of New-York.

The names and lengths of canals completed and in use, are as follows:

	Miles.
Erie canal (enlargement location), .....	353
Champlain canal, .....	66
Chenango canal, .....	97
Black River canal and feeder, (part in use,) .....	44½
Oswego canal, .....	38
Oneida Lake canal, .....	6
Oneida River improvement, .....	20
Cayuga and Seneca canal, .....	23
Chemung canal and feeder, .....	39
Crooked Lake canal, .....	8
Genesee Valley canal, (part in use,) .....	86
Length of canals in use, .....	<u>780½</u>

### *Additional work in progress.*

	Miles.
To complete Black River canal, .....	3
Genesee Valley canal, .....	32
Black River improvement under contract, .....	42½
In progress of construction, .....	<u>77½</u>

**Total in use and in progress of construction, 858 miles.**



The cost of engineering, including office expenses, agencies and superintendence of work under contract on all the canals for the past year, has been as reported by the division engineers :

On eastern division,.....	\$46,840 30
On middle division,.....	24,757 79
On western division,.....	58,956 13
In all,.....	<u>\$130,554 12</u>

In addition to the charge of work under contract, large forces have been required in the location, measurement, computations and plans for preparing the enlargement of the Erie canal, the Genesee Valley and the Black River canals for contract as authorized by the law of the last session of the Legislature, and in the lettings of the same.

Under this act (see Laws of 1851, chap. 485,) the Canal Board, on the 28th day of July, ordered to be prepared, without delay, the locations, plans, maps and quantities required in order to place the work under contract at the earliest date possible. Under this order and instructions from this department the division engineers proceeded to perform the whole work, and made their final reports on the 10th of October last.

The maps, plans, &c., were approved and immediately submitted to the Canal Board; they were adopted by them and the work advertised for letting. Proposals were received until the 18th of November, and the opening of the bids began on the 20th and occupied the Board four days. The number of propositions received were over 2,600 and each proposition generally embraced bids for a large number of sections or structures.

The canvass of these propositions occupied the Engineer Department over twelve days. Abstracts of this canvass are herewith presented in appendix, showing the amount of each proposition for each section of canal and each mechanical structure, the estimated cost of the same and the names of proposers and guarantors.

The law of 1851 above referred to provides that "contracts for the completion of the whole work of such canals," [Erie canal

enlargement, Black River and Genesee Valley canals] "shall not exceed to the amount of ten per cent. the sum of \$10,508,141, being the amount of the estimate for completing such canals, except for structures and work not included in the specifications and estimates as contained in the report of the State Engineer and Surveyor for the year 1851, exclusive of land damages."

Since the date of the last report and the estimates on which the appropriations contained in the law as above quoted were based, important changes have been made in the location of the line, by which the length of the canal has been materially reduced but the cost increased. The question of an independent line east of Rochester has long occupied the attention of the State officers in charge of the canals, and in the report of 1851 Mr. Stillson urges important considerations in favor of this line, and estimates its increased cost over the cost of enlargement on the old line at \$489,000, and the saving in distance of  $6\frac{1}{2}$  miles. [See report of 1851, page 186.]

During the past year surveys of this line were carefully made, and the difference in cost found to be less than that estimate; after the completion of these surveys the Canal Board visited the line and heard arguments and examined all the questions and interests involved, and decided upon the adoption of the independent line.

An important change was made upon like examination east of the village of Holley, by which the length of the line was reduced 3 miles, and the cost increased \$12,000. A change was also made in the location of the line near Chittenango by the Canal Board.

The increased cost of these changes of location must now be added to the estimate of 1851, being for work "not included in the specifications and estimates."

An important change was made by the Canal Board in the character of bridge structures, changing a large number from

wood to iron. The propositions showed that iron bridges of cheaper plan than had heretofore been used could be adopted, and that the cost on former plans could be reduced, the Board therefore as a matter of economy adopted iron bridges in all cases where they are to be permanently maintained by the State.

Some other structures are to be added to the estimates as here after stated.

Embraced in the estimates of 1851 and forming part of the amount named in the law, was the estimated cost at contract prices of work then under contract. Under authority of law, [see chap. 130, Laws of 1851,] the Canal Commissioners have materially increased the prices for work on sections 11, 12, 13 and 14, west of Lockport, and these sections will therefore exceed the estimate in cost by \$77,248.50, as stated by the division engineer. The Canal Board have also changed the plan at the Erie pier at Buffalo, and a portion of the locks in the Genesee Valley canal from composite to stone. Large additions to the quantities were also made in the embankment and other work for crossing the Cayuga marshes. The engineer who made the estimates for the work on this portion of the line, as contained in the report of 1851, is of the opinion that the additions will not be required.

The whole cost of the *ascertained* "structures and work" not included in the estimate of 1851, which go to increase the cost of the work recently placed under contract, and the cost of the work under contract at the date of the estimate, are added to the amount of the estimate for completing the canals, as they increase the value of work *under contract* to the same amount. I do not, however, add the additional cost growing out of increased prices allowed by the Legislature or the Canal Commissioners, which increase, in one instance above noticed, amounts to over \$77,000.

The increased cost of quantities or "work," and for changes in specifications or plans for bridges, piers, aqueducts, &c., which should be added to the estimate of

last report, is, .....	\$400,279 95	
Add for three reservoirs on Black River canal, .....	35,566 00	
Cost of independent line east of Rochester, above cost of line as reported in estimate of 1851, being increase of "work," .....	427,600 00	
Same for independent line east of Holley, .....	11,900 00	
Same for independent line at Chittanooga, .....	32,835 92	
		908,181 87
Amount of estimate, 1851, .....	\$10,508,141 00	
10 per cent. addition, as authorized by law, .....	1,050,814 10	
		11,558,955 10

Total amount authorized by law, as indicated by examinations and estimates of the year to complete the Erie canal enlargement, the Genesee Valley and Black River canals, .....\$12,467,136 97

The estimated cost of work required to complete the above canals, is as follows:

Work under contract at date, ....	\$9,358,450 33	
Work not under contract, viz:		
Feeder in Mohawk Valley, ....	150,000 00	
Ishua feeder and lock house,		
Genesee Valley canal, .....	44,000 00	
		\$9,552,450 33
		2,914,686 64
Deduct amount expended last year on existing and abandoned contracts, .....		620,957 92
Estimated cost of contracts less than amount as provided by law, .....		2,293,728 72

A large amount of work reported in 1851 as under contract, was abandoned early in the year; this work is included in the recent lettings, and an amount equal to its estimated value, is therefore to be deducted from the work reported as under contract, and added to the estimated cost of work remaining to be let, as stated in last report.

The following statement compares the estimate of this department for 1851, with the work at contract prices under the recent lettings:

The work as estimated not under contract in last report, was as follows :

*Eastern Division.*

Enlargement of Erie canal,.....	\$2,119,146 14	
Black River canal,.....	221,968 00	
Add for work abandoned and re-let,.	15,572 00	
	<hr/>	\$2,356,686 14

*Middle Division.*

Enlargement of Erie canal,.....	\$356,996 62	
Add for work abandoned and re-let,	178,354 97	
	<hr/>	1,035,351 59

*Western Division.*

Enlargement of Erie canal,.....	\$4,712,005 62	
Genesee Valley canal, .....	200,000 00	
	<hr/>	4,912,005 62
Add for work not included in est. as before stated,	908,181 87	
	<hr/>	
Total estimate as per report of 1851,.....	\$9,212,225 22	
	<hr/>	

This work has been contracted for at the late letting, as follows :

*Eastern Division.*

Erie canal enlargement,.....	\$1,431,150 06	
Black River canal,.....	222,076 60	
	<hr/>	
	\$1,653,226 66	
To be contracted for, .....	150,000 00	
	<hr/>	\$1,803,226 66

*Middle Division.*

Erie canal enlargement, ..... \$990,367 21

*Western Division.*

Erie canal enlargement, ..... \$4,966,574 18

Genesee Valley canal, ..... 149,570 00

\$5,116,144 18

To be contracted for, ..... 44,000 00

5,160,144 18

7,958,788 05

Contracts less than engineer's estimate, ..... \$1,258,487 17

The length and estimated cost of work under contract, the amount done and remaining to be done at contract prices, are exhibited in tables annexed. These tables show that there is under contract, of the enlargement of the Erie canal, on the

*Eastern Division.*

Eastern sub-division, 34 miles, estimated to cost, ..... \$1,127,072 69

Western sub-division, 16 $\frac{2}{3}$  miles, estimated to cost, ..... 702,966 37

Black River canal, 48 $\frac{4}{5}$  miles, estimated to cost, ..... 363,821 35

\$2,193,860 41

*Middle Division.*

Eastern sub-division, 20 $\frac{1}{3}$  miles, estimated to cost, ..... \$987,000 03

Western sub-division, 17 $\frac{3}{4}$  miles, estimated to cost, ..... 955,690 49

1,942,790 52

*Western Division.*

Eastern sub-division, 84 $\frac{7}{8}$  miles, estimated to cost, ..... \$3,758,050 52

Western sub-division 50 $\frac{5}{8}$  miles, estimated to cost, ..... 2,496,860 00

Genesee Valley canal, 30 miles, estimated to cost, ..... 879,098 38

7,134,908 90

Making a total amount of work under contract of. \$11,271,569 88

Of the above amount, there has been done as follows:

*Eastern Division.*

Eastern sub-division, .....	\$184,577 00	
Western sub-division, .....	188,236 64	
	<hr/>	\$372,813 64

*Middle Division.*

Eastern sub-division, .....	\$322,097 91	
Western sub-division, .....	199,802 00	
	<hr/>	521,899 91

*Western Division.*

Eastern sub-division, .....	\$126,608 70	
Western sub-division, .....	485,156 65	
Genesee Valley canal, .....	406,630 60	
	<hr/>	1,018,395 95

Making a total amount of work done under present contracts, .....	<hr/>	\$1,913,109 50
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Leaving amount of work now under contract, and to be done, .....	<hr/>	\$9,358,450 33
--	-------	----------------

To be put under contract as follows:

Rocky-reef feeder, eastern division, .....	150,000 00
Ischua feeder and lock house, Genesee Valley canal, .....	44,000 00
	<hr/>

Total amount required to complete the above named canals as contemplated by Laws of 1851, .....	<hr/> <hr/>	\$9,552,450 33
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The whole of the work for the enlargement of the Erie canal being now under contract; all the plans being settled upon for the entire completion of the work, it will not, it is believed, be out of place to give a brief description of the work with some drawings of the important mechanical structures.

Beginning in the city of Albany at the head of tide-water on Hudson's River, the Erie canal lifts itself over the ridge of slate rock, through which the Mohawk plows its way to the Hudson, by a series of 18 lift rocks, rising in the distance of twelve miles, some 180 feet; continuing at this elevation, it reaches the valley

of the Mohawk at the distance of 14 miles. The locks on this portion of the enlargement are located so as to have in no case less than 800 feet of pond reach between them. In the old canal there were nine locks crowded within less than one mile; the pond reaches were so small, that one lock-full of water would depress the surface so that loaded boats could not float, and great inconvenience to the navigation was the result.

The top-water surface on this portion of the canal varies from 80 to 100 feet in width. At this point the canal crosses the Mohawk by a wooden aqueduct supported by abutments and piers of stone masonry. The towing path is supported by 27 cut stone arches. The ashlos in this, as in all the important structures on the canal, are of the best grey lime-stone, taken from quarries on the Hudson near Kingston, at Amsterdam, on the Mohawk, at Onondaga and at Lockport.

Following the Mohawk, the canal re-crosses the river twelve miles farther west, making 26 miles from Albany. This aqueduct is similar to the other, with only 14 arches.

The city of Schenectady lies on the 28th and 29th miles of the canal. Here the Mohawk becomes navigable for small craft, and before the construction of the Erie canal this was the great depot for merchandize going westward and for the produce going eastward; from Albany to Schenectady was a portage, thence by Durham boats, "poled" up the Mohawk to Rome, passing the Little Falls by locks and canal; from the Mohawk the boats passed into Wood Creek, thence to Oneida Lake, and down the Lake to "*Three River Point*," whence they could pass down the Oswego or up the Seneca. By the Oswego, they entered Lake Ontario and reached the western counties; by the Seneca, they penetrated the country to Ithaca at the head of Cayuga Lake; they diverged from the Seneca into the smaller streams flowing from the Onondaga, Skaneateles, Owaseo, Canandaigua, Seneca, and Crooked Lakes, and thus supplied a large district in our own State remote from the seaboard.

The contemplation in the improvement in the condition of society in this portion of our State, since those days, fills the



mind with gratitude to the Creator for his goodness, and with admiration for the powers of the human intellect.

The Erie canal stretching out its tentaculæ, draws nourishment from far distant States, and affords business to localities, which, but for its construction, would at this present be entirely unknown to civilization.

At Frankfort, a distance of 101 miles from Albany, the canal attains an elevation of 425 feet above tide; this level is reached by 45 locks, varying from 8 to 11 feet lift each. Originally the locks were single, and  $15 \times 90$  feet in the chamber; now they are double and  $18 \times 110$  feet. The capacity of the canal is increased at least five times by the improvement in the locks.

From Frankfort to Syracuse, a distance of 70 miles, is on the old canal one unbroken level; but for the enlarged canal a three feet lift lock is constructed in the western suburbs of Utica. This became necessary in consequence of adopting the plan of *raising* the level of the old canal instead of *depressing* the bottom three feet. The citizens of Utica owning property on the canal remonstrated against the plan of raising the level through the city because of the serious injury to them; and after the locks at Syracuse had been constructed, which *fixed* the plan, it was, as a matter of economy, found better to construct this three feet lift lock than pay the large damages which raising the level would create.

At Syracuse the canal falls 27 feet by two locks of  $10\frac{1}{2}$  feet lift each, and one of 6 feet. From this level the Oswego canal issues, following the valley of the Onondaga creek to the Seneca river, thence down the Seneca and Oswego rivers by dams and locks to Lake Ontario at Oswego.

About five miles from Syracuse the enlarged canal rises by a lock  $7\frac{1}{2}$  feet; (on the old canal there was a lock of 5 feet lift at Geddes, which is about  $2\frac{1}{2}$  miles from Syracuse;) thence to the village of Jordan, about 190 miles from Albany and 19 from Syracuse, the canal is level.

From this to the Seneca river the canal drops some 25 feet to an elevation of about 381 feet above tide water. The old canal crosses the Seneca and Clyde rivers on their own waters, but the enlarged canal crosses them by aqueducts. This is one of the most important changes in the plan of location which the enlargement has made and requires a short description.

The old canal, as before stated, crosses on the level of the waters of the Seneca and Clyde rivers; and these rivers at this point, and for several miles above and below, traverse the Cayuga marshes, which, in the driest seasons of the year, rise only 12 to 18 inches above the surface of the waters: these marshes are some two miles wide, and consist entirely of vegetable mould to the depth of 11 to 15 feet. The present canal is cut through this muck, and a towing path is constructed of gravel brought from the hard land on either side. The water of the present canal is only four feet in depth. It is obvious that seven feet water cannot be had without dredging the bed of the Seneca river, and excavating the prism of the canal through the marshes three feet deeper than the present canal; this is all under-water excavation.

It has been found somewhat expensive to maintain four feet water, and it is believed by many that the maintenance of seven feet depth of water would be impracticable. Although there are good arguments on both sides, I did not deem it prudent to change so important a location, made by the Canal Commissioners, with the advice of experienced engineers, previous to my official connection with the subject.

The plan of the enlargement is to cross the rivers with aqueducts, elevating the level of the canal some ten feet above the present level across the marshes, building heavy embankments with materials taken from the hard land on each side of the marshes. This, tho' believed to be the more expensive, is undoubtedly the safest plan.

After leaving the marshes, the canal follows up the valley of the Clyde river to the village of Lyons, thence up the valley of Mud creek as far as the village of Macedon, thence across the

"Perrinton swamp" to the valley of the Irondequoit, the passage of which presents the most formidable undertaking on the whole line.

The width of this valley is nearly ten miles ; the surface of the ground is 20 to 80 feet below canal bottom. The heaviest mile section is estimated to contain 1,675,200 cubic yards of embankment and to cost \$393,491.

In crossing this valley the old canal is located along the margin of the hills, which approach each other as you pass southward, making the valley narrower and greatly cheapening the work, though enormously increasing the distance. The location of the enlargement across this valley is *eight miles* shorter than that of the old canal. [See Division Engineer's report on this subject.]

Leaving the Irondequoit, the canal passes over to the valley of the Genesee, and crosses that river at the city of Rochester, by an elegant cut stone aqueduct, a plan and view of which are hereto annexed. Rochester is 269 miles from Albany.

After leaving the Cayuga marshes, the canal rises by 14 lift locks 116 feet to the level of Rochester, and is 497 feet above tide-water. This level extends unbroken 63 miles to Lockport, which is 333 miles from Albany ; at this village is a flight of five combined double locks, rising 55 feet 10 inches to the level of Lake Erie, 553 feet above tide.

At the distance of 7 miles from Lockport, the canal enters Tonawanda creek and occupies the same for a distance of twelve miles, and leaves it at the village of Tonawanda, taking the margin of the Niagara river to Black rock, a distance of nine miles, where it enters Lake Erie, 360 miles from Albany, and continues for a distance of three miles to the city of Buffalo.

Respectfully submitted,

H. C. SEYMOUR.

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# **DOCUMENTS.**

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**R E P O R T**  
**OF**  
**CHARLES A. OLMSTED,**  
**DIVISION ENGINEER UPON THE EASTERN DIVISION OF**  
**THE NEW YORK STATE CANALS.**

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## REPORT.

STATE OF NEW YORK,  
OFFICE OF DIVISION ENGINEER, }  
Albany, Dec. 31st, 1851. }

HON. H. C. SEYMOUR, *State Engineer and Surveyor* :

Herewith I have the honor to present the annual report of the condition of the eastern division of the canals.

The reports of the resident engineers hereto annexed, give a detailed account of the work completed and in progress; to them your attention is respectfully invited.

The work under contract at this time is estimated to cost at contract prices as follows :

On the eastern sub-division, .....	\$1,127,072 69
Amount done on the same to date, .....	184,577 00

Remaining to be done, .....	\$942,495 69
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On the western sub-division :

Enlargement of the Erie, .....	\$702,966 37
Black River canal, .....	363,821 35

Total under contract western sub-division, .....	\$1,066,787 72
Amount done on the same, .....	188,236 64

Remaining to be done, .....	\$878,551 08
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Total under contract remaining to be done on this  
division .....\$1,821,046 77



The only important work not under contract is the feeder to be brought in at some point between Little Falls and Schoharie creek. An estimate was given in the last annual report for a feeder from the Mohawk, to enter the canal a few hundred yards below lock No. 36. Since then, more thorough examinations have been made of several routes and projects for a feeder, to wit: Bowman's creek reservoirs; found to be insufficient. Reerection of the Minden dam, with feeder extended thence to the canal level below lock No. 32; found to be too expensive in consequence of the damages to the "Mohawk flats." The Garoga and Canada lakes reservoirs; too distant and too expensive. Rocky rift route; this appears to be the most feasible; 1st, It requires a dam only about two and one-half feet high across the Mohawk; 2d, comparatively little damage is done to the bottom land above; 3d, it will not cost more than \$150,000, and it is believed that it may be done for \$120,000; 4th, it will be easy to increase the quantity of water at any future period by taking in the East Canada creek above the dam at Rocky rift, thus avoiding the hazard of an aqueduct for the same over the river; 5th, it is a great advantage to have the sources of the feeders as near the canal as possible, because the management of the water will be rendered safe without additional expense in superintendence. A map is herewith submitted, showing the several routes named.

The only work besides the above-named feeder, the completion of which is not provided for in the contracts recently made under the law of 1851, is that of removing the "*big bevel*" from the enlarged locks constructed prior to the suspension of the enlargement in 1842. This work must be performed before boats, constructed on the most approved model, for the enlarged canal, can be passed, with full cargoes, through these locks.

#### BLACK RIVER CANAL AND ERIE CANAL FEEDER.

All the work necessary to complete this enterprise is now under contract, to be completed by the first day of April, 1854.

The total estimated cost at contract prices is.....	\$363,821	35
Work done to date,.....	39,220	00
Remaining to be done,.....	324,601	35

This amount includes 35,566 dollars for three reservoirs on the head waters of Black River, not included in the estimates contained in the last annual report.

The project for the improvement of the River, mentioned in last year's report, after making the proper explorations, was abandoned because of the limited extent of country drained by the lakes, which we proposed to convert into reservoirs. The old plan of "*wing dams and jetties*" was adopted and put under contract at a cost considerably above the estimate contained in the aforesaid report. The reason for this is explained by the resident engineer, D. C. Jenne, Esq., in his report herewith.

### ENGINEERING EXPENSES.

The reports of the resident engineers contain statements of the names of all the engineers employed on their respective subdivisions during the year 1851, and the amount of compensation received by each.

These statements show the expenses to have been as follows :

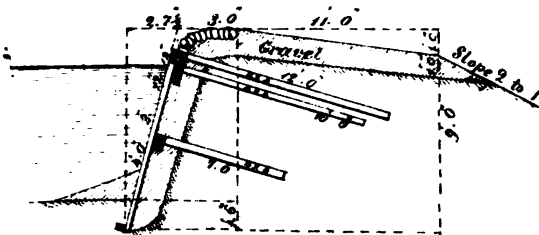
On eastern sub-division of enlargement,.....	\$23,364 82
" western do do.....	\$10,409 96
" Black River canal,.....	10,900 50
	<hr/>
	21,310 46
	<hr/>
	\$44,675 28
Add division engineer's salary,.....	1,700 00
Travelling expenses,.....	466 02
	<hr/>
	\$2,166 02
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Total,.....	<u>\$46,840 30</u>

Respectfully submitted,

CHARLES A. OLMSTED,

Division Engineer.









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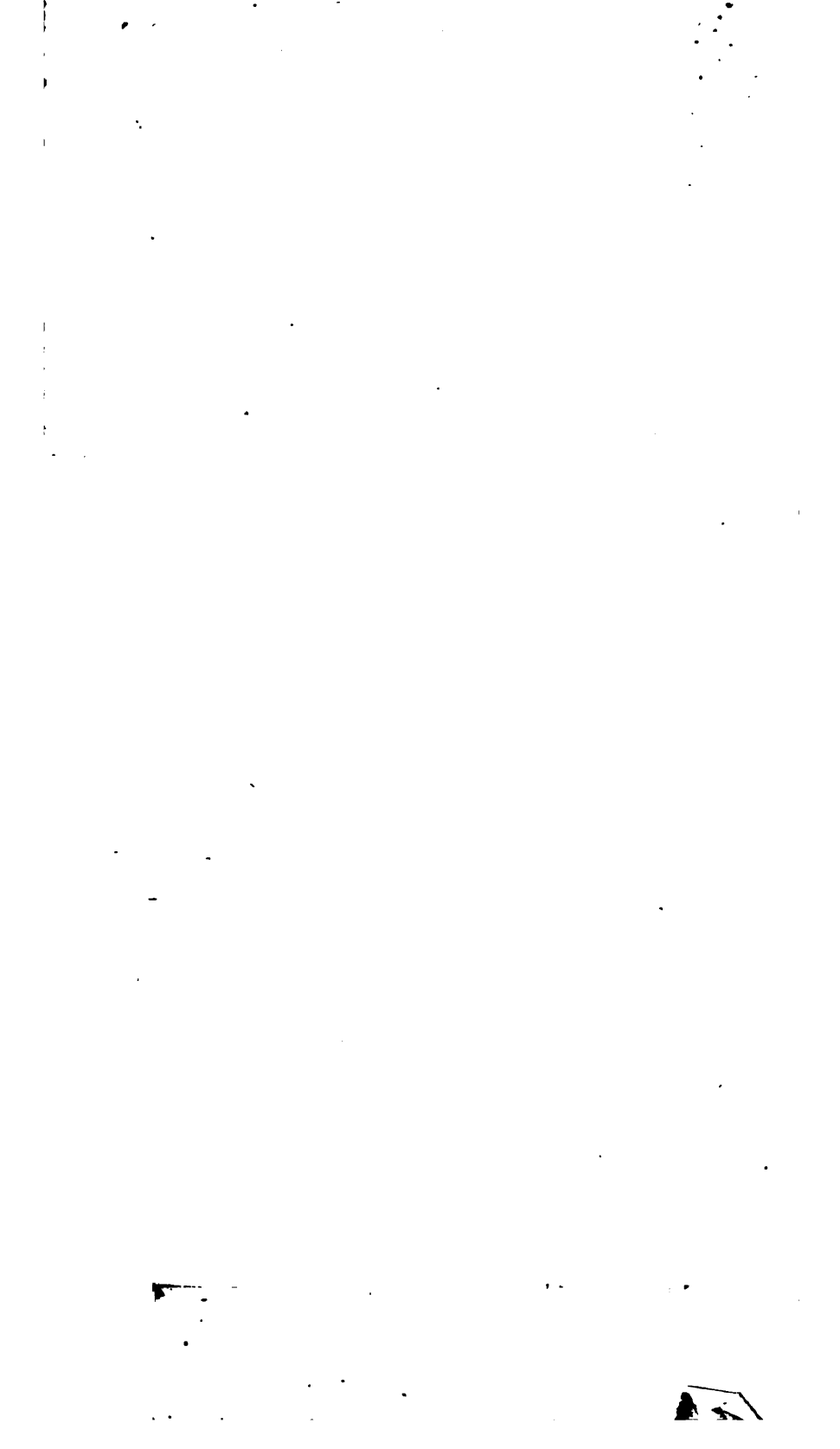
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**REPORT**  
**OF**  
**J. P. GOODSELL,**  
**RESIDENT ENGINEER UPON THE EASTERN SUB-DIVISION OF THE EASTERN DIVISION OF THE**  
**NEW-YORK STATE CANALS.**

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## REPORT.

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RESIDENT ENGINEER'S OFFICE,  
*Albany, December 31st, 1851.* }

C. A. OLMSTED, Esq.,  
*Division engineer.*

I herewith submit you a statement of the condition of the Eastern sub-division of the Eastern Division of the New-York State canals.

This sub-division embraces portions each of the Erie and Champlain canals.

### ERIE CANAL.

From the city of Albany to the head of lock No. 39, in the village of Rockton, including the upper and lower side cuts at West-Troy and the Albany Basin, a distance of 88.75 miles.

The principal structures embraced upon this line are

- 43 Lift locks.
- 2 Weigh locks.
- 15 Aqueducts,
- 60 Road bridges.
- 81 Farm bridges.
- 52 Culverts.
- 6 Waste weirs.

The locks are all doubled and enlarged except Nos. 2, 24, 32, 34, 38 and 39, which have each one enlarged and one old lock.

The side cut locks at West-Troy are all single and enlarged.

The weigh locks each at Albany and West-Troy, are enlarged and furnished with a Fairbank's & Co., scales with capacity of



400 tons. The one at West-Troy was completed and brought into use soon after the opening of navigation, 1851.

The aqueducts yet remaining to be reconstructed and enlarged are

Printup's.

Olstona.

Lasher's.

The San Sai kill and Phillips are nearly completed.

Of the road bridges 48 are built upon the enlarged plan, and 2 now in process of construction.

The farm bridges are 46 old, 34 new and 1 on section 39, now being erected.

The culverts 52 in number are all enlarged and completed except 11, located on sections 16, 17, 30, 33, 34, 35, 40, 59, 60 and 75.

Two waste weirs yet remain to be built on the enlarged plan on sections 30 and 56.

There is 51.75 miles enlarged and completed canal, 9.21 miles mostly completed, 3 miles now in process of construction and 24.79 miles of old canal, making in all 88.75 miles.

The feeders with the guard locks connected at Rockton, and the upper Mohawk aqueduct have been enlarged and completed.

The contracts for section No. 29, 39 and 48, and for road and ferry bridges on section 39, also, for the San Sai kill aqueduct and bridges on sections 27 and 28 are now in progress.

A large number of contracts have been completed during the past year.

For the particular state of the old canal and structures connected, together with the reason for the speedy completion of the canal I refer you to my report of last year.

The engineering corps have been variously and busily employed during the past year. Annexed is a table of the expenditures

upon this sub-division for engineering, from January 1, 1851, to January 1, 1852.

Among the duties performed by the engineers may be enumerated :

The survey and location of the three different projects for a feeder in the vicinity of Fort Plain, as shown by the annexed maps. A detail calculation for all work embraced on this sub-division of work to be let under chap. 384, Laws of 1851, with duplicate maps and plans for the same; the various maps of permanent appropriation for the Canal Appraisers, the settlement of a number of final accounts, the superintendence of the construction of combined locks at Whitehall, and Becker's lock of the Champlain canal, besides the charge of work in progress in the enlargement of the Erie canal, the transcribing of final accounts for work done previous to suspension in 1842, into large volumes to be filed in the Canal Commissioners' office, and various other duties incident to the peculiar situation of the office in this city.

Herewith is submitted a map, showing the three different projects for erecting a new auxiliary feeder intermediate, the Little Falls and Schoharie creek. The computations pertaining thereto are not yet completed, but will be submitted to you in an additional report during the present winter.

There have been prepared accurate drawings of one of the new enlarged locks, aqueducts, road and farm bridge superstructures, also cross sections of the enlarged canal, showing the slope walls, the manner of docking where docking is used, and vertical or battered walls where such are to be constructed through cities and villages. In juxtaposition to each of the above named drawings, sections, &c. the plans of the old structures and form of old canal are so placed that an accurate comparison can be made of the dimensions and character of each.

The completion of that portion of section No. 32, from the foot of lock No. 23 to section No. 31, by the opening of navigation the coming spring would be a great relief to navigation, and should be done.

If a portion of the rock excavation on section No. 84, on the berme bank of the canal immediately west of "Fink's grocery" can be removed before the opening, the facilities of navigation at this point would be greatly benefited.

The berme abutments to several bridges should be raised above surface of water before commencement of navigation, in order that the bridges may be completed during the summer.

There has been one engineer's office discontinued and three new ones created since my last report. The one at West Troy was discontinued in consequence of the completion of the work in that vicinity. The new ones are located, each at lower Mohawk aqueduct, Fultonville and St. Johnsville. There are now five engineer offices, upon this residency, exclusive of the Albany office, located at lower Mohawk aqueduct, Schenectady, Amsterdam, Fultonville and St. Johnsville. There is also one office at Whitehall with a 2d assistant engineer, employed in the construction of the locks upon the Champlain canal.

The points at which the above offices are located seem to be the most favorable for the interest of the work, and a due regard for the convenience of the contractors and those having immediate charge of its construction.

Very respectfully yours,

J. P. GOODSELL,  
*Resident Engineer.*

*Tabular statement, showing the length and estimated cost of work now under contract, and the amount done, and remaining to be done at contract prices, on the Eastern sub-division of the Eastern division of the New-York State canals, up to December 31st, 1851.*

Kind of Work.	Name of contractor.	Estimated cost at contract prices.	Amount done at contract prices.	Remaining to be done at contract prices.
Weight lock at West Troy, do house at West Troy,.....	Murray and Glancy,...	\$30,340 00	\$29,840 00	\$500 00
Section No. 27 $\frac{1}{2}$ ,.....	E. Murray,.....	11,880 00	11,270 00	610 00
do 28 $\frac{1}{2}$ ,.....	Henry M. Crane,...	8,272 00	6,760 00	1,522 00
do 29,.....	Van Voorst & Barhydt,	20,606 00	20,052 00	554 00
do 39,.....	N. Van Debogart & Co.,	25,570 00	19,570 00	6,000 00
do 48,.....	J. S. M. Barhydt & Co,	13,830 00	9,300 00	4,530 00
Culvert at Fultonville,....	W. S. Shuler & Co.,...	36,536 00	18,520 00	18,016 00
Bridges on sec. 27 and 28, do do 39,.....	David Wiles,.....	10,550 00	10,275 00	275 00
do do 66,.....	J. I. Yates,.....	10,880 00	10,080 00	800 00
do do 81,.....	T. Reynolds,.....	3,650 00	2,320 00	1,330 00
San Saikill aqueduct,.....	Watson and Burton,...	2,880 00	2,780 00	100 00
Castle Creek, do. ....	John Sholl,.....	3,340 00	1,960 00	1,380 00
	J. C. Smith,.....	23,660 00	17,650 00	6,000 00
	W. H. Williams,.....	24,248 00	24,210 00	38 00
		<u>\$226,232 00</u>	<u>\$184,577 00</u>	<u>\$41,655 00</u>

Amount brought forward, ....		\$226,232 00	\$184,577 00	\$41,655 00
Section No. 13, (completion,)...		3,172 00	.....	3,172 00
do 14,.....	98 chains,	4,696 00	.....	4,696 00
do 15,.....	80 do	14,939 00	.....	14,939 00
do 16,.....	80 do	26,715 00	.....	26,715 00
do 17,.....	80 do	18,806 00	.....	18,806 00
do 18,.....	80 do	13,422 00	.....	13,422 00
do 19,.....	35 do	3,774 00	.....	3,774 00
do 30,.....	80 do	28,813 00	.....	28,813 00
do 31,.....	80 do	20,825 00	.....	20,825 00
do 32,.....	80 do	15,383 00	.....	15,383 00
do 33,.....	80 do	31,743 00	.....	31,743 00
do 34,.....	80 do	5,101 00	.....	5,101 00
do 35,.....	80 do	14,024 00	.....	14,024 00
do 36,.....	64 do	13,283 00	.....	13,283 00
do 37,.....	78 do	18,226 00	.....	18,226 00
do 40,.....	54 do	8,996 00	.....	8,996 00
do 41 to 45, incl. completion of		22,356 00	.....	22,356 00
do 51 to 56 do do do		17,676 00	.....	17,676 00
do 57,.....	100 do	17,425 00	.....	17,425 00
do 58,.....	118 do	33,639 00	.....	33,639 00
do 59,.....	109 do	27,138 00	.....	27,138 00
do 60,.....	109 do	41,259 00	.....	41,259 00
do 61,.....	109 do	18,257 00	.....	18,257 00
do 62,.....	109 do	52,243 00	.....	52,243 00
Amount carried forward, .....		\$	\$	\$

Kind of work.		Estimated cost at con- tract prices.	Amount done at contract prices.	Remain- ing to be done at contract prices.
Amount brought forward, ....		\$	\$	\$
Section No. 75, .....	93 chains,	18,766 00	.....	18,766 00
do 78, .....	100 do	23,244 00	.....	23,244 00
do 83, .....	48 do	13,649 00	.....	13,649 00
do 84, (completion,) .....		4,693 00	.....	4,693 00
Lock No. 2, .....	1 do	23,136 86	.....	23,136 86
do 24, .....	1 do	23,060 81	.....	23,060 81
do 32, .....	1 do	26,696 81	.....	26,696 81
do 34, .....	1 do	21,804 50	.....	21,804 50
do 38, .....	1 do	26,482 50	.....	26,482 50
do 39, .....	1 do	31,364 50	.....	31,364 50
Phillips' aqueduct, .....	1 do	5,207 51	.....	5,207 51
Printup's do .....	1 do	21,219 08	.....	21,219 08
Olstona do .....	1 do	18,870 79	.....	18,870 79
Lasher's do .....	1 do	15,418 57	.....	15,418 57
Waste-wier on section 30, .....	1 do	4,251 55	.....	4,251 55
do do 56, .....	1 do	3,815 30	.....	3,815 30
Culvert on section 16, .....	1 do	1,829 74	.....	1,829 74
do do 17, .....	1 do	1,286 46	.....	1,286 46
do do 30, .....	1 do	3,278 70	.....	3,278 70
do do 33, 34 and 35, ...	3 do	5,488 50	.....	5,488 50
do do 40, .....	2 do	5,767 70	.....	5,767 70
do do 59, .....	1 do	2,064 60	.....	2,064 60
do do 60, .....	1 do	2,070 60	.....	2,070 60
do do 76, .....	1 do	2,577 10	.....	2,577 10
Road bridge abutments on sec. 56, .....	2 do	3,006 00	.....	3,006 00
do do do 15 & 18, .....	2 do	2,697 18	.....	2,697 18
do do do 77, .....	2 do	2,353 63	.....	2,353 63
Bridge abutments on sec. 13, 31, 33, .....	3 do	3,701 81	.....	3,701 81
Farm bridge abut. on sec. 15, and all on 19, .....	2 do	2,636 58	.....	2,636 58
Farm bridge abut. sec. 26, 60, 61, 62 and all abut. sec. 78 to 84 incl., .....	11 do	11,076 48	.....	11,076 48
Farm bridge abut. on sec. 16 and 17, .....	4 do	3,846 84	.....	3,846 84
do & R. do do 32, 35, 36, 37, .....	7 do	7,165 66	.....	7,165 66
do do do 46 to 56 incl, .....	8 do	8,540 24	.....	8,540 24
do do do 57, 58, 59, ...	6 do	5,656 68	.....	5,656 68
do do Spraker's to Fort Plain, .....	4 do	3,372 04	.....	3,372 04
Bridge abut. on sec. 44, 45, 75, 76, .....	5 do	4,962 65	.....	4,962 65
Iron bridge superstructure on sec- tions No. 13 to 84 inclusive, ....	54 do	54,405 00	.....	54,405 00
Valve gates for locks No. 2, 24, 32, 34, 38 and 39, .....	6 do	3,147 73	.....	3,147 73
Raising banks Champlain canal, ...	1 44-100 miles	4,386 00	.....	4,386 00
All wooden superstructure of bridges on eastern sub-division of the eastern division, .....	3 chains,	1,944 00	.....	1,944 00
		<u>\$1,127,072 69</u>	<u>\$184,577 00</u>	<u>\$942,495 69</u>

## TABULAR STATEMENT

*Of engineering expenses for the year 1851, on the eastern sub-division of the New-York State canals.*

Names.	Rank or station.	No. of days employed.	Price per year. \$1,500 00 per day.	Amounts. \$1,500 00	Total.
J. P. Goodsell, .....	Resident engineer, .....	313	\$1,500 00 per day.	\$1,500 00	
" .....	Travel, .....	...	....	481 80	
" .....	Extra service canvassing propositions, 1st assistant, .....	313	\$3 50	1,095 50	
" .....	Allowance by C. Board, .....	...	....	76 00	
" .....	Extra labor canvassing propositions, 1st assistant, .....	313	3 50	1,095 00	
" .....	Extra service canvassing proposition, 2nd assistant, .....	313	2 50	782 50	
" .....	Travel, .....	...	....	45 75	
" .....	Extra service canvassing proposition, 2nd assistant, .....	313	2 50	782 50	
Thomas Goodsell, Jr., " .....	Allowance for travel, .....	...	....	17 50	
" .....	Extra service canvassing proposition, 2nd assistant, .....	313	2 50	785 00	
Charles H. Beach, ..	Allowance by Canal Board, .....	106	2 50	265 00	
James Green, .....	Clerk, .....	207	2 00	414 00	
Ogden Edwards, .....	2nd assistant, .....	27	2 50	67 50	
" .....	Draughtsman, .....	50	2 50	125 00	
" .....	Assistant, .....	236	2 50	590 00	
" .....	Allowance for travel, .....	...	....	5 50	

Names.	Rank or station.	No. of days employed.	Price per day.	Amount.	Total.
David Vaughan, ....	Draughtman, .....	289	\$2 50	\$722 50	
William Pitt, .....	Extra service canvassing proposition, Draughtman, .....	96	2 50	76 00	
Samuel McElroy, ...	" .....	49	3 00	240 00	
A. M. Peek, .....	" .....	34	2 50	147 00	
" .....	" .....	77	2 25	85 00	
" .....	" .....	79	2 50	173 25	
" .....	Clerk, .....	157	2 25	197 50	
" .....	Extra service during canvass, .....	...	...	353 25	
Joel Gray, Jr., .....	Draughtman, .....	61	2 00	78 10	
" .....	" .....	42	2 25	122 00	
" .....	Leveller, .....	79	2 00	94 50	
Joseph L. Harris, ...	Draughtman, .....	27	2 25	158 00	
" .....	" .....	79	2 50	58 50	
" .....	Extra service canvassing proposition, Leveller, .....	...	...	197 50	
W. B. Cooper, .....	Rodman, .....	27	2 00	64 00	
" .....	Extra, canvassing proposition, .....	177	1 50	54 00	
A. Remenyi, .....	Leveller, .....	...	...	265 50	
" .....	Extra canvassing proposition, .....	27	2 00	76 00	
Luke Usher, .....	Surveyor, .....	...	...	54 00	
" .....	Rodman, .....	27	2 00	28 00	
A. P. Ten Broeck, ..	Clerk, .....	111	1 50	54 00	
W. W. Wight, .....	" .....	100	2 00	166 50	
" .....	Extra, canvassing proposition, .....	123	2 00	200 00	
M. C. Fremyre, .....	Clerk, ... ..	...	...	246 60	
		7	2 00	32 00	
				1400 00	

Edward Marcy, .....	15	2 50	37 50
" .....	52	1 25	65 00
Extra service canvassing proposition,	...	...	76 00
Clerk, .....	26	1 25	32 50
Extra service, canvassing proposition,	...	...	58 00
Clerk, .....	26	2 00	52 00
" .....	29	2 00	58 00
Extra service canvassing proposition,	...	...	64 00
Clerk, .....	37	1 50	55 50
" .....	54	1 50	81 00
Clerk, .....	79	1 50	118 50
Tapeman, .....	90	1 25	112 50
Rodman, .....	313	1 50	469 50
Extra service canvassing proposition,	...	...	29 00
Rodman, .....	263	1 50	394 50
Rodman, .....	50	1 25	62 50
Axeman, .....	106	1 50	159 00
Rodman, .....	207	1 25	258 75
Chainman, .....	74	1 50	11 25
Rodman, .....	40	1 50	60 00
" .....	84	1 50	12 75
" .....	8	1 50	12 00
" .....	75	1 50	112 50
Extra service canvassing proposition,	...	...	22 00
Rodman, .....	67	1 50	100 50
Tapeman, .....	35	1 25	43 75
Rodman, .....	55	1 50	83 50
Edward Marcy, .....	...	...	...
" .....	...	...	...
Extra service canvassing proposition,	...	...	...
Clerk, .....	...	...	...
Extra service, canvassing proposition,	...	...	...
Clerk, .....	...	...	...
" .....	...	...	...
Extra service canvassing proposition,	...	...	...
Clerk, .....	...	...	...
" .....	...	...	...
Clerk, .....	...	...	...
Tapeman, .....	...	...	...
Rodman, .....	...	...	...
Extra service canvassing proposition,	...	...	...
Rodman, .....	...	...	...
Axeman, .....	...	...	...
Rodman, .....	...	...	...
Chainman, .....	...	...	...
Rodman, .....	...	...	...
" .....	...	...	...
" .....	...	...	...
" .....	...	...	...
" .....	...	...	...
Extra service canvassing proposition,	...	...	...
Rodman, .....	...	...	...
Tapeman, .....	...	...	...
Rodman, .....	...	...	...
Henry J. Bushnell, ..	...	...	...
" ..	...	...	...
Joseph Steel, .....	...	...	...



Names.	Rank or station.	No. of days employed.	Price per day.	Amount.	Total.
Duncan McNaughton,	Chainman,	35	1 25	43 75	
O. M. Sanders,.....	"	55	1 25	68 75	
M. M. Francis, .....	"	39	1 25	48 75	
"		...	....	76 00	
John M. Keith,.....	Extra during canvassing proposition,	33	1 12½	37 13	
J. A. Becker, .....	Chainman,	159	1 00	158 00	
Bradford Scouton,...	"	313	1 25	391 25	
David Eggabroad,...	" and axeman,	19	1 25	23 75	
C. Moessner, .....	Axeman,	1	1 50	1 50	
E. Moody,.....	" and guide,	1	1 50	1 50	
David Haggart,.....	"	12	1 25	15 00	
Christian Parsch,...	"	14	1 87½	26 25	
Henry W. Manning,	Axeman,	32	1 00	32 00	
Richard A. North,...	"	17	1 00	17 00	
Henry Hose, Jr.,....	"	27	1 00	27 00	
F. E. Peek,.....	"	33	1 00	33 00	
Jno. Wiley,.....	"	38	1 25	47 50	
John O'Hara, .....	Inspector,	273	2 00	546 00	
Benjamin Bradley,...	"	310	2 00	620 00	
James Cashin,.....	"	258	2 00	516 00	
John Van Demark,...	"	213	2 00	626 00	
"	Travel,	...	....	10 30	
John Hitchcock,....	Inspector of dredging,	217	3 00	651 00	
"	"	6	2 00	12 00	
A. C. Piercy,.....	"	177	3 00	531 00	
"	Inspector,	17	2 00	34 00	

Samuel Lewis,.....	171	2 00	342 00
Joseph Royer,.....	99	2 00	198 00
D. G. Mallery,.....	69	2 00	138 00
Joseph Goodale, ....	66	2 00	132 00
Cutting and setting monuments and digging test pits,			<u>\$445 40</u>
Extra service during canvass of propositions,.....			232 50
Watching banks of new canal, .....			31 25
Office rent,.....			243 27
Stationery,.....			679 44
Postage and telegraph,.....			123 24
Fuel,.....			84 20
Light,.....			289 60
Miscellaneous,.....			<u>777 96</u>
			<u>2,906 86</u>
			<u><u>\$23,364 82</u></u>

\$20,457 96



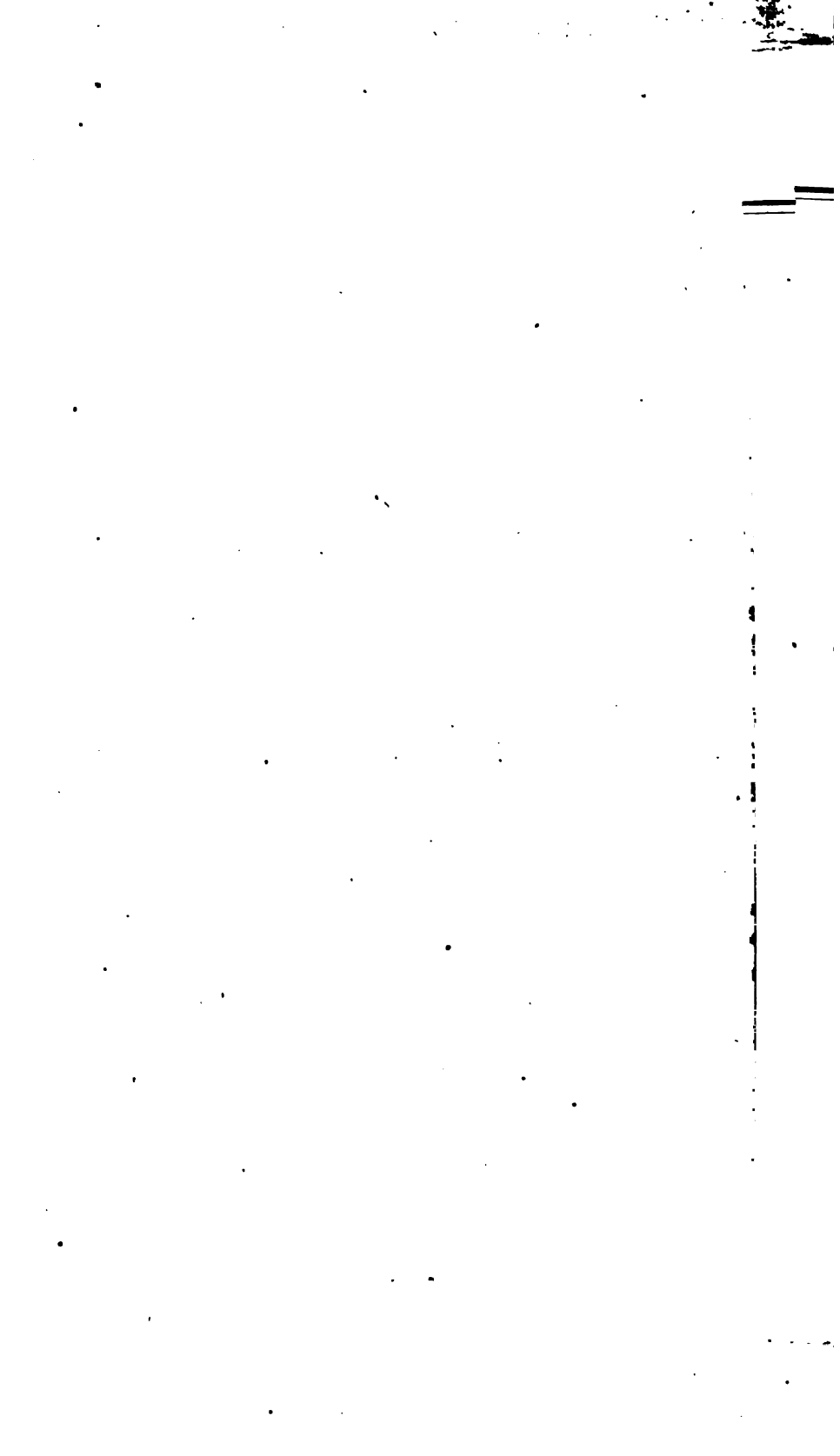




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**REPORT**  
**OF**  
**DANIEL C. JENNE,**  
**RESIDENT ENGINEER ON THE WESTERN SUB-DIVISION**  
**OF THE EASTERN DIVISION OF THE**  
**NEW-YORK STATE CANALS.**

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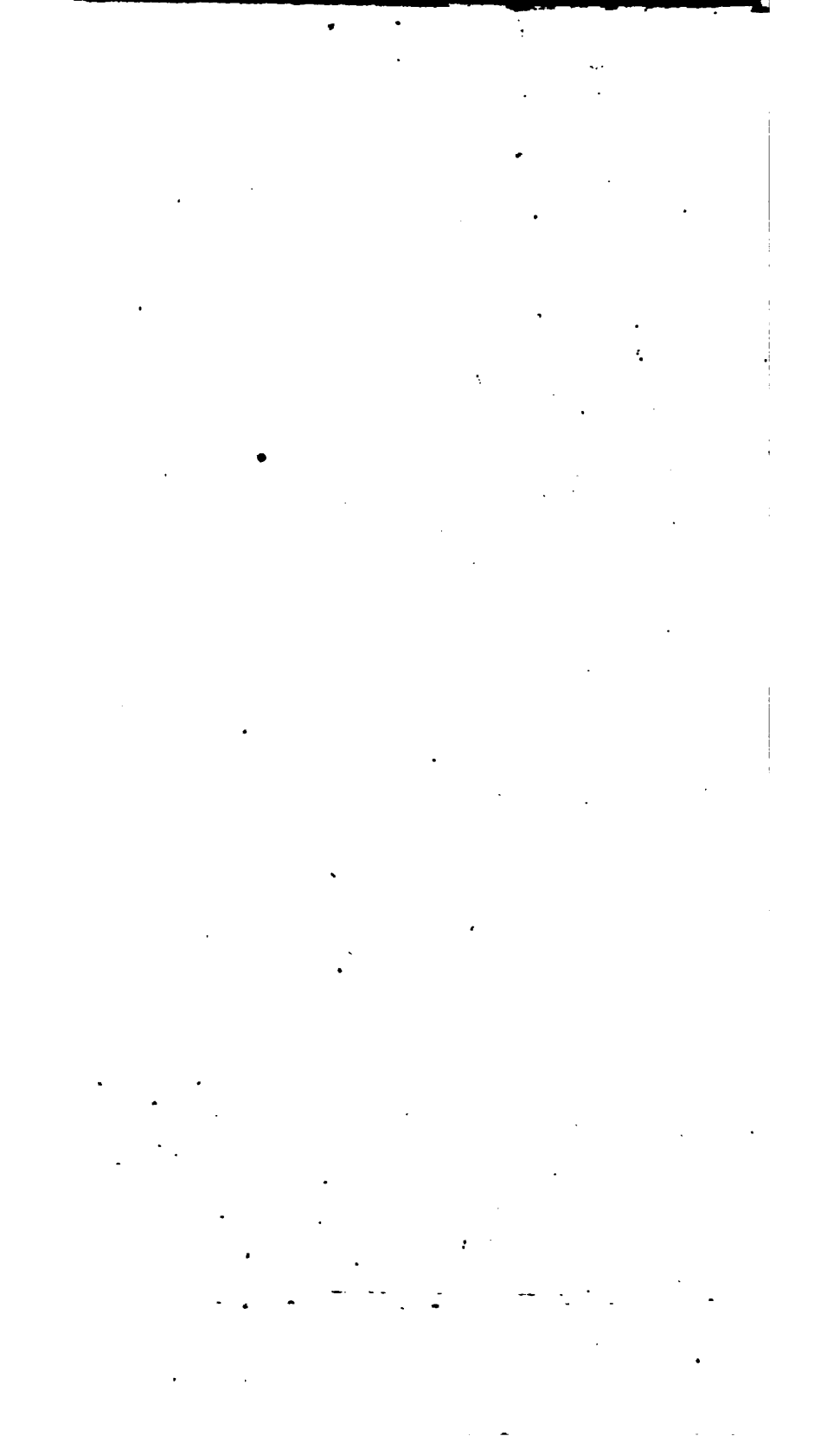




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der contract to be completed in April 1854.





## REPORT.

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CHARLES A. OLMSTED, Esq.,  
*Division Engineer.*

Sir: I herewith present the annual report relative to the western sub-division of the eastern division of the enlargement of Erie canal and the Black River canal.

### ENLARGEMENT OF THE ERIE CANAL.

This sub-division extends from the head of lock No. 39, in the village of Rockton, to the east bank of the Oneida lake canal, at Higginsville, a distance of 47.21 miles as the enlargement is located, embracing sections Nos. 87 to 134 inclusive.

#### SECTIONS.

All the sections have been completed and brought into use from 87 to 110. Section 111 is about one half finished and in use, the balance to be completed before the opening of navigation. Section No. 112 has about 10 chains nearly finished and in use; the contract for this section was declared abandoned on the 2nd, of October last, by the Canal Commissioner in charge, and the work re-let December 30th, 1851. The section east of Sauquoit aqueduct, and sections Nos. 113, 114, 115, 116 and at New London are brought into use, although not completed. A short section of 16 chains, at Fort Bull culvert, has been enlarged and brought into use.

There have been in use during the past year, 30.93 miles of enlarged canal, 1.98 miles of which are not yet entirely finished. There are yet 16.28 miles to be enlarged, all of which is now under contract to be completed in April 1854.

### LOCKS.

There are seven locks located on this sub-division, viz: No. 40 to 46, inclusive. Nos. 40 to 42 have one enlarged lock and one old lock by the side in use; Nos. 43 to 45 are double enlarged locks in use; No. 46 are double enlarged locks of 3 feet lift, one of which has been brought into use, as a lift-lock, by putting in the gates during the past season, while the other has been used to pass the water to supply the canal below. The navigation west of these locks has been materially improved during the past season by bringing this lock into use, although the lift has been only about one foot.

### WEIGH-LOCKS.

There is one weigh-lock, of enlarged size, with a good substantial weigh-lock house connected, in use and in good order.

### AQUEDUCTS.

There are seven enlarged aqueducts, all of which have been brought into use, the one at Oriskany having been completed last spring.

### CULVERTS.

There are now 28 culverts, of the enlarged size, in use, three of which were brought into use last spring; there are 16 culverts yet to build for the enlarged canal. The number has been reduced 8 by changing the plan from what was contemplated in the last annual report.

### BRIDGES.

The number of bridges completed, of the enlarged size and in use, is 29 road bridges, 13 farm bridges, 1 tow-path and 3 foot bridges. There are to be built 10 road and street bridges, 19 farm bridges for canal, and one road and one tow-path bridge for feeder.

The farm bridges have been located with due reference to the interest of the State and the convenience of the farms, and several which were contemplated last year have been dispensed with. A commutation has been made by the Canal Commissioner in one case, which applies to two farms and the location of several bridges will open claims for damages which must be settled by

the Commissioners or Canal Appraisers, but it is presumed that this can be done at a much less expense than the cost of the bridges.

#### WASTE WEIRS.

There are four enlarged waste weirs built and three remaining to be built.

#### FEEDER DAM AND BULK HEAD.

There is a dam to be constructed across the Mohawk river, near Rome, and a bulk head and feeder connected therewith. The old dam, feeder and bulk head now in use, are not of sufficient capacity for the enlarged canal. A plan has been adopted and the location made for a new dam, feeder and bulk head about half a mile above the location of the old dam.

The work above specified as yet to be done, is all under contract, to be completed by the 1st day of April, 1854.

A receiver has been constructed on the berm bank of the canal, about one mile east of Rome, to receive the flood waters of Whital creek. The object of this improvement was fully explained in the last annual report of the State Engineer and Surveyor at pages 75 and 76.

The waste weir, two miles east of this point has been repaired and put in good shape for passing off the water received at Whital creek in time of flood. The plan thus far has operated as anticipated and with proper care on the part of the superintendent it is believed will answer the purpose designed.

The services of the Engineer Department for the year 1851, have been as follows, viz:

Superintendence of work in progress under contract has been nine sections, one aqueduct, putting in gates to lock No. 46, three bridges and two culverts. Measurements and computations necessary for the monthly estimates on said work together with the entry in books, affidavits and copies of estimated quantities, required at the different departments at Albany.

Final accounts have been made for the settlement of five contracts.

The surveys, maps, plans and estimates for the location of 15 5.100 miles of canal, and the plans and estimates for the location of three single locks, ten road bridges, nineteen farm bridges, sixteen culverts, three waste wiers, one dam, feeder and bulk head, with one road and one tow path bridge connected with the feeder, have been made. Also, the maps and plans for exhibition at letting for the same work, including all the necessary papers, canvassing propositions and making out contracts (twenty-eight in number, of three copies each,) for the above work which was let at Albany, Dec. 30th, 1851.

The following tabular statements are annexed :

No. 1.—Shows the cost of work on contracts completed, giving the total of the different kind of structure.

No. 2.—Shows the estimated cost at contract prices of work under contract prior to Dec. 30th, 1851, amount done and to be done.

No. 3.—Shows the estimated cost, at contract prices, of work let December 30th, and also, the cost at engineers, estimates.

No. 4.—Statement of the expenses of engineer department for the year 1851, which amounts to \$10,409.96.

From the statements referred to it may be seen that the estimated cost of the completion of this subdivision of work to be done subsequent to April, 1847, is \$1,163,024.63, of which there has been work done to the amount of \$520,679.93 and leaves remaining to be done, not including land damages yet to be paid, the sum of \$642,344.70.

This estimated cost compared with that of 1851 is as follows :

Total cost as per estimate 1851,.....	\$1,245,906 26
Total cost as per present estimate,.....	1,163,024 63
	<hr/>
	82,881 63

Deduct for land damages estimated last year, less the amount paid in 1851,.....	37,805 55
Difference in cost in favor of present estimate,....	<u>\$48,576 08</u>

### BLACK RIVER CANAL.

The canal proper is  $35\frac{1}{2}$  miles in length, extending from the Erie canal at Rome to the Black river at High falls. The improvement of the river extends from High falls to Carthage, a distance of  $42\frac{1}{2}$  miles. Black river feeder is 10.29 miles in length, to which should be added 2 miles of reservoir. Delta feeder will be 1.38 miles long, to which may be added 1 mile of navigation in the Mohawk river above the feeder. There will be  $2\frac{1}{2}$  miles of navigation in Moose and Black rivers above the High falls, and it is thought that Beaver river, which enters Black river about 10 miles above Carthage, may be navigable for five miles. The total navigation when the whole work is completed will be about 100 miles.

### SECTIONS.

Sections Nos. 24, 26, 27, 28, and also 29, as far as to lock No. 95, have been completed during the past year. Sections Nos. 23 and 25 are nearly done. Sections Nos. 30 and 31 are in progress and have a small amount of work done. The canal from and including lock No. 71, at Boonville, commencing with section No. 23, and extending to lock No. 95, on section No. 29, near Port Leyden was brought into use in October last. The balance of about 3 miles, from this point to the river below the *High falls*, it is believed will be completed so as to be brought into use in the spring of 1853.

### LOCKS.

There are 94 lift locks completed and in use, 24 of which were brought into use in October last; four more were nearly completed in 1842, and 11 are now in the progress of construction, making in all 109 lift locks.

There is also one guard lock at the head of the Black River feeder, completed and in use, and one to be built at the head of

the Delta feeder, which is now under contract. Of the 94 locks finished, only 37 have sluices built around them for passing the water. The sluices for the other 37, viz: from No. 34 to No. 70 inclusive are yet to be built and are under contract.

#### AQUEDUCTS.

There are five aqueducts finished and in use. The one at Sugar river has been completed and brought into use the past year.

#### BRIDGES.

There are 63 bridges completed and in use on the canal and Black River feeder, 17 of which have been built during the past year. There are 8 yet to build on the canal and four on the Delta feeder.

#### DRAW BRIDGES.

The number of drawbridges located on the Black river is two. The abutments, &c., were completed in 1850, and the draws have been built during the past year.

#### CULVERTS.

There are 17 culverts finished and in use; two of them have been built during the last season; there is one to be built for the canal and two for the Delta feeder.

#### WASTE WEIRS.

There have been eight wasteweirs built on the canal and four on the Black River feeder. One on the feeder has been dispensed with in consequence of a break in the towpath having occurred near it. One on the canal was built within the last year.

#### LOCK-HOUSES.

The canal will require 33 lock-houses when completed, 19 of which are built and the balance are under contract, to be completed by the first of September next.

#### DAMS.

A dam is located to be built across the Black river a short distance above the High falls. This dam will set the water back about  $1\frac{1}{2}$  miles on both Black and Moose rivers, the junction of

the two rivers being about 40 rods above the location of the dam. About three-fourths of a mile above the falls the canal enters the Black river and follows the same for a distance of 45 chains; it then diverges from the river about 16 chains above the dam, passes around the falls and enters the river again at 52 chains below, by descending 70 feet distributed in seven locks.

The object of this dam was explained in the last annual report of the State Engineer and Surveyor, pages 83 and 84.

A dam is also located to be built across Black river at the village of Carthage at about midway between the bridge and the old dam near the upper end of the large island on west side of river. The object of this dam is to control the water for purposes of navigation.

A plan has been adopted of raising the abutments and embankments of dam across Black river at head of feeder (at Williamsville) two feet, the object of which is to avoid the contingency of having the security of the dam affected by the occurrence of another high flood similar to the one in the spring of 1850.

The work on the above mentioned dams was put under contract December 30th, 1851.

### IMPROVEMENT OF BLACK RIVER.

In the last annual report of the State Engineer and Surveyor, three prominent plans were spoken of as having been proposed, one of which would undoubtedly be adopted. The first was by jettee dams and piers. The second was by constructing a dam across the river in the vicinity of Otter or Independence creeks, and cutting a canal across a large bend in the river, and locking in to the river below from that point, to improve by jetties and piers. The third plan was to build reservoirs on the head waters of Moose river, and increase the quantity of water in the dry season of the year, by drawing from said reservoirs, and thus keep up navigation.

All the different plans have been under consideration, surveys and examinations made for each, and the plan of improvement by



jettees and piers has been adopted by the Canal Board, and put under contract.

The estimates which were made last year contained in last annual report, were based upon a former survey of the river. A new survey has been made during the past summer, the result of which has shown that the bars have materially increased in length since the previous survey, and this has very much increased the expense of the improvement of the river. The amount of the former estimate was 84,000. The cost of the work at contract prices, as let Dec. 30th, 1851, is 128,923, which is \$24,266 below the engineer's estimate, presented to the Canal Board at the time the plan was adopted.

The examinations of the river which have been made the past season, compared with those formerly made, show conclusively that the bed of the river is constantly changing, and that although the estimated quantities of materials used at letting have been liberally made, yet the cost of the work may be eventually materially increased in consequence of the changes above-mentioned.

In view of the third proposition mentioned above for the improvement of Black river, surveys were made during the winter of 1851, of the lakes on the middle branch of Moose river, which takes its rise in Hamilton county, near the head of Racquette lake.

There are eight lakes, most of them of considerable size, and located within about 18 miles, extreme points. By building a dam at what is called the "Old Forge Dam," of about 16 feet in height, or 8 feet above the old dam, the water would set back over 5 of said lakes. These five lakes embrace an area of 2,762 acres, which would be increased by the dam to 3,481 acres, affording a reserve of about 800,000,000 cubic feet of water.

The outlet of these lakes can probably be excavated so as to draw down the lakes and increase the quantity of water to 1,000,000,000 cubic feet.

Dams can also be built at the foot of the 6th and 8th lakes, to raise the water 10 or 20 feet if necessary, so that a large portion

of the water which flows from these lakes, can be held in reserve at a moderate expense for any purpose which may be necessary, connected with the canal or river.

#### RESERVOIRS.

Extensive surveys have been made during the past year for the purpose of locating reservoirs on the head waters of Black river.

The Black river at about one mile above the point where the feeder for canal is taken out is formed by two branches, one called the Woodhull and the other the Black river; the Woodhull has its source from Woodhull lake located about 20 miles above. The Black river has its source from several lakes located from 20 to 30 miles above the feeder.

The examinations have shown that reservoirs can be constructed by damming up the outlet of many of said lakes.

Surveys have been completed and maps and plans adopted by the Canal Board for 4 reservoirs located in this region. One on the Woodhull, one on the North Branch lake, one on the South Branch lake, and another on a marsh a short distance below the one last mentioned.

Their dimensions and capacities are as follows, viz:

Woodhull, .....	1,343 acres	1,012,452,240 cubic feet.
North Branch, .....	423 "	309,934,400 "
South " .....	517.7 "	421,190,000 "
Marsh, .....	260 "	204,782,000 "

Total, ..... 1,948,308,640

It is supposed that the North Branch reservoir can be filled twice during the year, and the water used for the purpose designed, by proper care in closing the gates in times of heavy rains, as the quantity of water flowing from the lake at all times is large, and that the reservoir will be but a short time in filling with the gates closed. Care should be taken also in closing the gates of the other reservoirs, under similar circumstances, and it is believed that by being thus careful, the quantity of water may be increased to 2,500,000,000 cubic feet, to be used during the dry season when it is required.

To obtain a supply of water equal to 16,000 cubic feet per minute for 110 days, it will require 2,534,400,000 cubic feet. This will give the quantity originally estimated as the supply to be obtained from the Black river for the Black River and Erie canals. In this manner the Black river is left with its original quantity of water during the dry season and the feeder supplied entirely from reservoirs.

If in the end it should prove that the quantity of water obtained should fall short of a sufficient quantity for the purposes designed, there are other lakes on the Woodhull and the Black river of smaller size than those proposed to be used, on which reservoirs can be constructed at a proportionate expense to the others.

Examinations were made for another reservoir on the Levin Lake Branch, but the lateness of the season and the heavy fall of snow prevented the completion of the necessary surveys in order to show what capacity of reservoirs could be obtained.

In the last annual report only one reservoir was contemplated, viz: the Woodhull, which was estimated to cost \$5,500. The dimensions of this have been increased from what was proposed in the last estimate, which has increased the cost as compared with the contract made for the work, \$2,569. The whole cost of the 4 reservoirs estimated at contract prices is \$43,635.

The services of the engineer department for the year 1851 have been as follows, viz:

The superintendence of the construction of 8 sections, 11 new locks, finishing of 20 old locks and the sluices connected, 1 aqueduct, 3 road and 14 farm bridges, 2 culverts, 1 waste weir superstructure of 2 draw-bridges, and the sluices for 33 locks.

Final accounts have been made for the settlement of 20 contracts, including the necessary calculations.

Surveys have been made for 42½ miles of improvement of Black river, for the Delta feeder, sluices, for 37 locks, dams at High falls and Carthage, and raising the abutments, &c., to dam

at Williamsville, and for reservoirs at the head waters of Black and Moose rivers.

The surveys for reservoirs on Black river embrace about 100 miles of line explored with level and compass entirely in an unimproved country, mostly along the margin of lakes generally covered with a thick growth of underbrush. The surveys on the Moose river have extended over about 69 miles of line explored instrumentally, and were extended and connected with the inlet of Racquette lake.

The expense of surveys and making maps of Woodhull and Black River lakes has been about \$3,000, including test pits. That of Moose River lakes has been about \$1,000.

Maps of location have been made for all the work above described, together with plans of the mechanical work and estimates of cost of the whole work, with the exception of the estimates for reservoirs on Moose river. Also the maps, plans and other necessary papers to be exhibited for the letting of the work above described. Propositions were canvassed for the letting of this work and the contracts made out, 17 in number, of 3 copies each.

The following tabular statements are annexed :

No. 5 shows the cost of work on contract completed, giving the total of the different kinds of structures.

No. 6 shows the estimated cost of work under contract prior to Dec. 30th, 1851, amount done and to be done.

No. 7 shows the estimated cost, at contract prices, of work let Dec. 30th, 1851, also estimated cost at engineers' estimates.

No. 8, a statement of the expenditures of the engineer department for the year 1851, which amounts to \$10,900.50.

From the foregoing statements it may be seen that the estimated cost to complete the work to be done on the Black River canal after the resumption in 1847, amounts to the sum of \$993,236.99, of which there has been done \$608,675.51, leaving a balance of work to be done Jan. 1st, 1852, of 384,561.48, exclusive of land damages yet to be paid.

The cost of the work exceeds the amount contained in the last annual report, \$90,790.47, which is mostly caused by the increase of work in the improvement of Black river and the construction of reservoirs, only one of which, (the Woodhull,) was contemplated at that time, and that of a smaller size than the one now adopted to be built at that place.

Respectfully yours,

DANIEL C. JENNE,  
Resident Engineer.

RESIDENT ENGINEER'S OFFICE, }  
Rome, Dec. 31st, 1851. }

( No. 1. )

*Tabular Statement showing the cost of work completed on the western sub-division of the eastern division of the enlargement of the Erie canal, December 31st, 1851, since resumption in 1847.*

Kind of work.	No. of miles or structures.	Amounts.	Totals.
Sections,.....	5 $\frac{1}{2}$	\$122,143 71	
Locks,.....	6	26,353 20	
Aqueducts,.....	5	81,000 52	
Culverts,.....	11	33,074 84	
Bridges,.....	12	20,587 92	
Valve gates,.....	6 locks.	4,085 14	
			\$287,245 33
Add work done on contracts not finished,.....			149,016 64
Miscellaneous, (paid,).....		\$25,218 18	
Land damages, (paid,).....		41,630 05	
Engineering for years 1850 and 1851,.....		17,569 73	
			84,417 96
Total work done,.....			\$520,679 93
Work to be done on contracts as per table			
No. 2,.....		\$23,640 36	
do do as per table No. 3,.....		530,309 37	
Engineering estimated at.....		30,000 00	
Add 10 per cent. for contingencies,..		58,395 07	
Total cost of work remaining to be done Jan.			
1st, 1852, (not including land damages,).....			642,344 70
Total cost of work to be done April, 1847,..			\$1,163,024 63

## ( No. 2. )

*Tabular statement of work under contract prior to December 30th, 1851, on the western sub-division of the eastern division of the enlargement of the Erie canal, showing the estimated cost at contract prices, amount done and to be done.*

Kind of work.	No. of miles or structures.	Estimated cost.	Amount done.	Amount to be done.
Sections, .....	621	\$160,857 00	\$139,126 72	\$21,730 28
Culvert, .....	1	500 00	338 00	162 00
Bridges, .....	4	11,300 00	9,551 92	1,748 08
		<u>\$172,657 00</u>	<u>\$149,016 64</u>	<u>\$23,640 36</u>

## ( No. 3. )

*Tabular statement of work let December 30th, 1851, on the western sub-division of the eastern division of the enlargement of the Erie canal, showing the estimated cost at contract prices, and the cost at engineer's estimates.*

Kind of work.	No. of miles or structures.	Estimated cost at contract prices.	Engineer's estimate.
Sections, .....	16 $\frac{1}{4}$	\$341,457 50	\$370,100 00
Locks, .....	3	80,442 40	81,200 00
Waste weirs, .....	3	11,189 50	11,250 00
Culverts, .....	16	20,744 00	22,806 00
Bridge abutments, .....	28	38,064 00	40,860 00
do superstructures, ....	28	25,455 10	23,650 00
Valve-gates, .....	3 locks,	1,513 87	1,650 00
Dam at Rome, .....	1	8,040 00	8,500 00
Feeder and bulkhead, ....	1	3,403 00	3,500 00
		<u>\$530,309 37</u>	<u>\$563,516 00</u>

## (No. 4.)

*Tabular statement of engineering expenses on the second sub-division of the eastern division of the enlargement of the Erie canal for the year 1851.*

Names.	Rank or station.	Time. Days.	Rate or com'p. per year. per day.	Amounts.	Totals.
Daniel C. Jenne,..	resid't eng'r,	182½	\$1,500	\$750 00	
do	.. do extra,	16	\$2 00	32 00	
Lorrain L. Nichols,	1st assistant,	250	3 50	875 00	
Wm. B. Taylor, ..	do	158	3 50	553 00	
do	.. do extra,	36	2 00	72 00	
do	.. 2d assistant,	135	2 50	337 50	
Octave Blanc, ....	1st do	63	3 50	220 50	
do	.... do extra,	19	2 00	38 00	
do	.... dra'ghtsm'n,	114	2 50	285 00	
Hiram K. Joslin, .	2d assistant,	158	2 50	395 00	
do	. do extra,	3	2 00	6 00	
do	. leveller,	78	2 00	156 00	
Thos. H. Bates,..	2d assistant,	72	2 50	180 00	
Harvey Parks, Jr.	do	79	2 50	197 50	
do	... do extra,	18	2 00	36 00	
do	... leveller,	155	1 75	271 25	
do	... do	79	2 00	158 00	
Job P. Whipple,..	2d assistant,	79	2 50	197 50	
do	.. leveller,	234	2 00	468 00	
John L. Dodge,..	do	169	2 00	338 00	
do	... do extra,	18	2 00	36 00	
Geo. B. Beach, ...	ass't lev'ler,	79	1 75	138 25	
do	... do extra,	18	2 00	36 00	
do	... do	79	1 62½	128 38	
do	... rodman,	154	1 50	231 00	
Geo. M. Barnes, ..	ass't lev'ler,	79	1 75	138 25	
do	.. do extra,	26	2 00	52 00	
do	.. rodman,	234	1 50	351 00	
Jas. E. Willard, ..	rodm'n&cl'k,	142	1 62½	230 26	

Carried forward, ..... \$

Brought forward,.....				\$
W. B. Peggs,.....	do ch'n, 171½	1 25	214 38	
W. M. S. Blyley, ..	do do 307½	1 25	394 38	
S. W. Morton, ...	chaintman, 18½	1 25	23 13	
Henry L. Perry,..	do 39	1 25	48 75	
Nor. H. Barton, ..	do 14	1 25	17 50	
Pat. Handwright,	do 6	1 25	7 50	
Richard Marcy,..	do 183	1 25	228 75	
do ..	axeman, 130	1 00	130 00	
John Edy,.....	do 200	1 00	200 00	
Geo. W. Chase, ..	do 42	1 00	42 00	
James Huntington,	axeman, 12	1 25	15 00	
do .....	do 9	1 00	9 00	
Sundry, .....	do 68½	1 00	68 50	
David Vaughn,..	dra'ghtsm'n, 24	3 00	72 00	
Squire Whipple,..	do 3	4 00	12 00	
John M. Whipple,. do	2½	2 00	5 00	
William Segar,..	do 7	1 50	10 50	
S. W. Barnes,....	do & lev'ler, 46	2 00	92 00	
H. S. White,.....	clerk, 79	1 25	98 75	
			<hr/>	8,636 53
J. C. Shippy,.....	inspector, 212	2 00	424 00	
John O'Harra,....	do 32	2 00	64 00	
Chester Ray,.....	do 19	2 00	38 00	
			<hr/>	526 00
Total for engineering and insp'rs,				9,162 53
Foreman labor, test pits,.....	34	1 50	51 00	
Team do do .....	4	2 50	10 00	
Common do do .....	434½	1 00	434 25	
			<hr/>	495 25
Total engineering, inspection and test pits,				9,657 78
Office rents,.....			22 00	
Lights, .....			22 79	
Fuel, .....			48 52	
Postage, .....			56 67	
Telegraph, .....			16 85	
Express,.....			30 89	
Carried forward,.....				\$



Brought forward,.....	\$	
Affidavits, .....	23	39
Stationery, .....	137	82
		<hr/>
		434 93
Travel of resident engineer,.....	244	36
" expenses of others allowed by Canal Board, .....	54	76
		<hr/>
		299 12
Miscellaneous,.....		18 13
		<hr/>
		\$10,409 96
		<hr/>

Amount paid, under a resolution of the Canal Board, to  
persons engaged in canvassing propositions at Albany  
and included in the above,..... \$372 76

( No. 5. )

*Tabular statement showing the cost of work on contracts, completed  
on the Black River canal, December 31st, 1851.*

Kind of work.	No. of miles or structures.	Amounts.	Totals.
Sections, .....	24	\$63,793 18	
Locks, .....	94	284,899 23	
Valve gates, .....	94 locks,	16,898 42	
Lock irons, .....	..	1,437 88	
Steps and sockets, .....	..	443 25	
Lock houses, .....	7	2,202 25	
Aqueducts, .....	5	27,460 48	
Culverts, .....	7	11,322 29	
Waste-weirs, .....	8	5,507 29	
Bridges, .....	63	17,362 87	
Draw bridges, .....	2	18,173 91	
Dam and bulkhead, .....	1	1,436 61	
Black River dam, .....	1	14,180 20	
		<hr/>	465,117 86
Add work done on contracts not finished, .....			39,220 00
Miscellaneous, .....		52,209 29	
Engineering, .....		42,259 87	
Land damages, .....		6,468 49	
Commutation of farm bridges, .....		3,400 00	
		<hr/>	104,337 65
			<hr/>
Total work done, .....			608,675 51

Brought forward,.....	\$
Work to be done on contracts made prior to Dec. 30th, 1851, as per table No. 6,.....	\$102,524 75
do do as per table No. 7,	222,076 60
Engineering estimated at,.....	25,000 00
Add 10 per cent. for contingencies,.....	34,960 13
Total cost of work remaining to be done Jan. 1st, 1852, (not including land damages,)...	384,561 48
Total cost of work to be done April, 1847,,	<u>\$993,236 99</u>

(No. 6.)

*Tabular statement of work under contract, prior to Dec. 30th, 1851, on the Black River canal, showing the estimated cost at contract prices, amount done and to be done.*

Kind of work.	No. of miles or structures.	Estimated cost.	Amount done.	Amount to be done.
Sections, .....	4 $\frac{1}{2}$	\$41,140 95	\$10,038 35	\$31,102 60
Locks, .....	15	83,326 60	14,617 67	68,708 98
Lock houses, .....	14	4,852 10	4,172 10	680 00
Bridges, .....	8	12,425 10	10,391 88	2,033 22
		<u>\$141,744 75</u>	<u>\$39,220 00</u>	<u>\$102,524 75</u>

(No. 7.)

*Tabular statement of work let Dec. 30th, 1851, on the Black River canal, showing the estimated cost at contract prices, and the cost at Engineer's estimates.*

Kind of work.	No. of miles or structures.	Estimated cost at contract prices.	Engineer's estimate.
Sections, .....	1.38	9,935 00	10,070 00
Locks and sluices, .....	1&37	17,044 00	17,630 00
Bridges, .....	5	1,425 60	1,630 00
Culverts, .....	3	900 30	1,050 00
Lock houses, .....	12	4,525 00	3,915 00
Dams, .....	3	12,859 00	13,400 00
Reservoirs, .....	4	43,635 50	44,600 00
Improvements of Black river, .....	42 $\frac{1}{2}$	128,923 00	153,189 00
Valve gates, .....	16 locks,	2,829 20	3,300 00
		<u>\$222,076 60</u>	<u>\$248,784 00</u>

( No. 8. )

*Tabular statement of engineering expenses on the Black River canal,  
for the year 1851.*

Names.	Rank or Station.	Time. Days.	Rate of comp'n per year.	Amounts.	Total.
Daniel C. Jenne,..	resid't eng'r,	187½	\$1,500	\$750 00	
do	.. do extra,	13	per day. \$2 00	26 00	
Jonathan S. Brown	1st assistant,	324	3 50	1,134 00	
do	.. do extra,	42	2 00	84 00	
John G. Sippell...	do	33	3 50	115 50	
do	.. 2d do	173	2 50	432 50	
do	.. leveler,	77	2 00	154 00	
Thomas H. Bates,.	2d assistant,	77	2 50	192 50	
Ezekiel W. Butler,	do	313	2 50	782 50	
do	.. do extra,	3	2 00	6 00	
William G. Ward,.	do	79	2 50	197 50	
do	.. leveller,	234	2 00	468 00	
Miram K. Joslin,.	do	77	2 00	154 00	
Oscar L. Wetmore,	do	155	1 75	271 25	
do	.. do	158	2 00	316 00	
James E. Willard,	assit't level'r	79	1 75	138 25	
do	.. rodman & cl'k	92	1 62½	149 50	
Octave Blanc,....	draughtsman	138	2 50	345 00	
Isaac D. Colman,.	surveyor,	292	2 50	730 00	
C. L. Phelps,.....	do	141	2 00	282 00	
P. B. Shultz,.....	rodman,	75	1 25	93 75	
A. V. Hartwell,...	do	132	1 25	165 00	
H. K. Hadley,....	do	4	1 25	5 00	
John Ballou,.....	do	41	1 50	61 50	
George McDonald,	do	23	1 25	28 75	
W. A. Thomas,...	ch'n & rdm'n	108	1 25	135 00	
Daniel S. Jackson,	do	41	1 50	61 50	
Silas Erwin, .....	do	41	1 50	61 50	
do	.. do	68	1 25	85 00	
Roderick Shaw,...	inspector,	73	2 00	146 00	
Carried forward, .....				\$	

## Brought forward,.....\$

Roderick Shaw,...	axman, chain- man&insp'ct'r	79	1 25	98 75	
Charles O. Grant,.	chainman,	112	1 25	140 00	
Erastus Arnold,..	do	45	1 50	67 50	
do ..	do	92	1 25	115 00	
W. H. Diefendorf,.	do	44	1 25	55 00	
Henry S. Miller,..	flagman,	96	1 00	96 00	
A. T. McDougall,.	axeman,	41	1 50	61 50	
Mathew Gillson,..	do	41	1 50	61 50	
Edwin N. Arnold,.	do	35	1 50	52 50	
Saml. McMichael,.	do	99	1 25	123 75	
Henry Churchill,.	do	74	1 25	92 50	
J. L. Brinkerhoff,.	do	79	1 25	98 75	
H. Schermerhorn .	do	34	1 25	42 50	
Jonas Klock, ....	do	108	1 25	135 00	
John B. Darrow..	do	21	1 25	26 25	
Solca R. Smith, ..	do	15	1 25	18 75	
David Fort,.....	do	22	1 25	27 50	
Samuel Robey, Jr.,	do	35	1 25	43 75	
Jacob Hiltz, .....	do	15	1 25	18 75	
Barnard Hoy, ....	do	31	1 25	38 75	
William Hiltz, ...	do	32	1 25	40 00	
Theoph. Williams,	do	66	1 00	66 00	
Sundry, .....	do	32	1 25	40 00	
Do. ....	do	23½	1 00	23 50	
				<hr/>	9,155 00
Marshall W. Carter, inspector,		27	1 50	40 50	
do do do		89	2 00	178 00	
				<hr/>	218 50
Total for engineering and insp'rs,					9,373 50
Test pits,		18	1 50	27 00	
do		214	1 25	267 50	
do		7	1 00	7 00	
do		60½	87½	53 15	
				<hr/>	354 65
Engineering, inspection, & test pits,.....					9,728 15

Brought forward,.....	\$		
Office rent,.....	94	00	
Lights, .....	43	61	
Fuel,.....	39	86	
Postage, .....	15	43	
Affidavits, .....	22	40	
Stationery, .....	54	89	
			269 79
Travel of resident engineer,.....	226	10	
“ expenses of others, allowed by Canal Board,.....	114	00	
			340 10
Miscellaneous,.....			562 46
			<u>\$10,900 50</u>
Amount paid under a resolution of the Canal Board to persons engaged in canvassing propositions at Albany, and included in the above, .....			<u>\$135 00</u>

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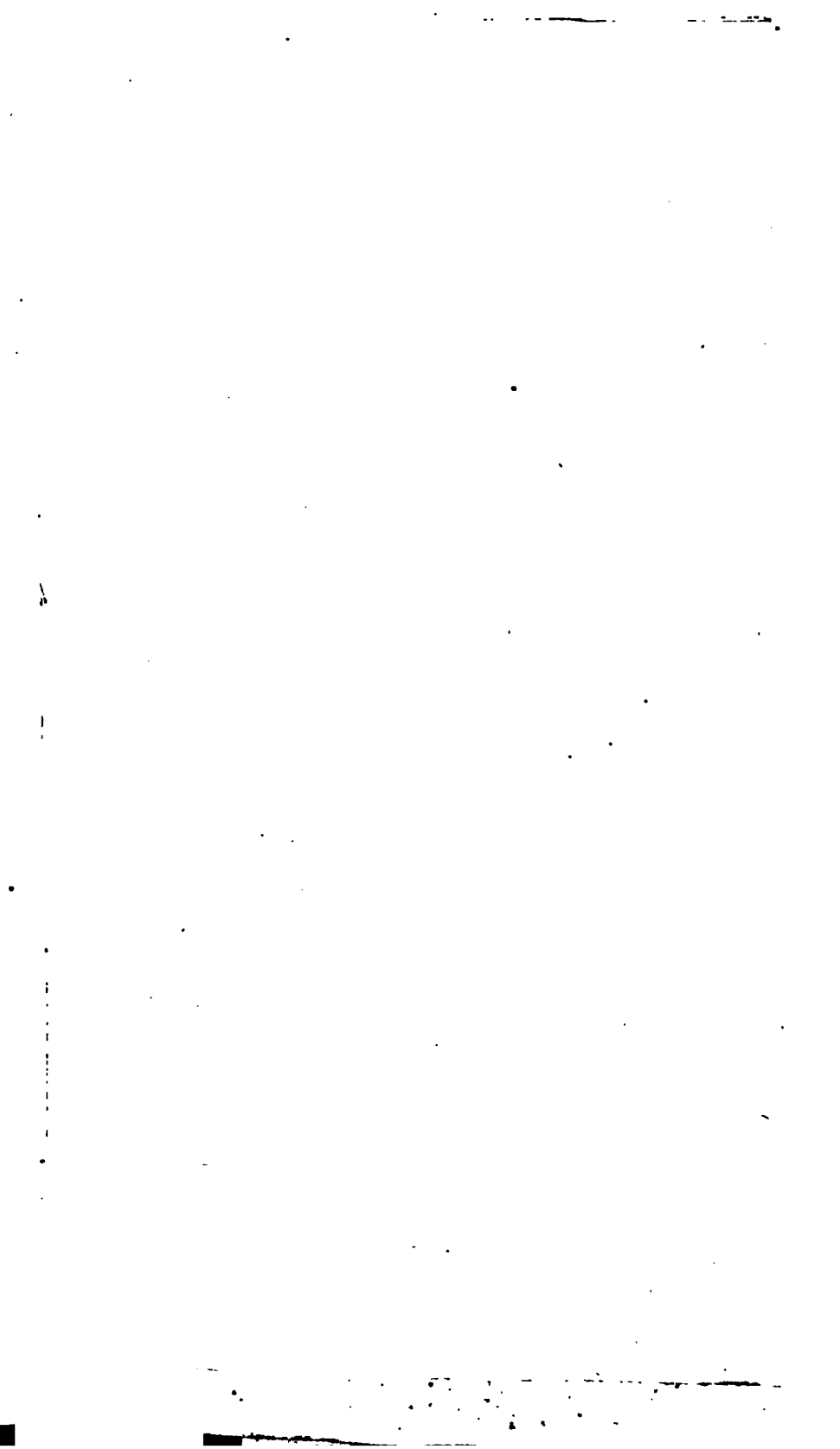
**REPORT**  
**OF**  
**JOHN T. CLARK,**  
**DIVISION ENGINEER UPON THE MIDDLE DIVISION OF**  
**THE NEW-YORK STATE CANALS.**  
**DECEMBER 31, 1851.**

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## REPORT

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*To the State Engineer and Surveyor :*

In obedience to law and complying with instructions, I present herewith, statements and estimates, showing the progress of the work of enlargement upon the middle division of the Erie canal; and the enlarged locks of the Oswego canal; together with a brief report of the condition of all the canals, and improvements embraced in the said middle division of the New-York State canals; and a few suggestions in relation thereto.

The middle division is divided into two sub-divisions, the eastern and western. The eastern sub-division embraces the Erie canal from the Oneida lake canal at Higginsville, west to the village of Jordan, (including the Erie-ville reservoir,) the Oswego canal, the Oneida River improvement, and the improvement of the Seneca river at Baldwinsville.

The western sub-division includes the Erie canal from the village of Jordan to the East line of Wayne county; the Cayuga and Seneca canal, the Crooked Lake canal, the Chemung and Chenango canals.

The length of the several canals and improvements on the two subdivisions are as follows :

	Miles.
Erie canal from Higginsville to the east line of Wayne co.	73
Oswego canal, .....	38
Oneida Lake canal, .....	6
Oneida River improvement, .....	20
Improvement of the Seneca river at Baldwinsville, .....	1
Cayuga and Seneca canal, .....	23
Chemung canal and feeder, .....	39
Crooked Lake canal, .....	8
Chenango canal, .....	97
<hr/>	
Total of middle division exclusive of feeders, and 5 miles of Seneca river towing path, .....	304½
	<hr/> <hr/>

Of the 73 miles of Erie canal enlargement on the middle division,

27.88 miles are wholly completed and brought into use.

6.60 miles under contract, and nearly completed, which was brought into use last spring.

2.23 miles under contract, which will be brought into use next spring.

1.82 miles under contract, which will be brought into use in the spring of 1853.

8.79 miles under contract which will expire in the spring of 1852.

25.68 miles put under contract December 30th, 1851, and expire in the fall of 1852 and 1853, and spring of 1853 and 1854;  $4\frac{1}{3}$  miles of which was let in June 1850, and reported last year as under contract, but the same was declared abandoned, and relet with other work, in December last.

The amount required to complete contracts which expired on this division in 1850, is, ..... \$19,202 91

Amount required to complete contracts which expired in 1851, is, ..... 95,151 11

Amount required to complete contracts which expire in 1852, is ..... 316,449 38

Total amount required to complete all work under contract previous to Dec. 30th 1851, \$430,802 40

The estimated cost of work put under contract previous to December 1851, on the middle division of the Erie canal enlargement, including 10 per cent on section work, and 5 per cent on a portion of the mechanical structures added to cover contingencies is ..... \$1,106,971 43

The cost of the same at contract prices including like per centage added for contingencies is .. 1,081,167 19

In my report of January 22d, 1851, the estimated cost of work to complete the enlargement not under contract at that time, is put down at, ..... \$856,996 62

In this sum is included \$35,000, to improve the Orville, Limestone creek and Chittenango feeders, which work has not been put under contract, and therefore should be deducted, ..... 35,000 00

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\$821,996 62

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At the same time, sections 192, 193, 195, 197 and 199, with the mechanical structures, were under contract, subsequently those sections and some of the structures were abandoned, and the work re-let in connection with the new work, on the 30th Dec.

By instituting a comparison between the estimated cost in the report of 1851, to complete the line of enlargement upon the middle division not then under contract, and the estimated cost of the work on the same division, which was put under contract on the 30th of December last, the difference will be found to be \$249,974.81.

This excess is occasioned chiefly by the abandonment of the five sections before mentioned, which were then under contract, and adding the same to the work advertised for letting on the 18th of November, and contracted for in December.

The *actual* difference between the estimates for the same items of work, is as follows :

Estimate of 1851 as before given, .....	\$821,996 62
Estimated cost of the same work put under contract	
December 30th, .....	893,616 46
	<hr/>
Excess, .....	\$71,619 84
	<hr/>

This increase in the estimate is accounted for as follows :

Increase in the estimated cost of constructing sections 149, 150, and 151, rendered more expensive in consequence of a change of location by the <i>Canal Board</i> ,...	\$32,835 92		
Increase on mechanical structures on the eastern sub-division,.....	3,176 85		
An increase in the <i>quantity</i> of embankment on section 203 and 204, (Cayuga marshes,) to make further provision for settling, (which may and may not take place) and also for a double line of sheet piling for the entire length of marsh on these sections,.....	\$38,238 02		
Less decrease on mechanical structures,.....	2,630 95		
	<u>\$35,607 07</u>	<u>\$71,619 84</u>	

The amount required to complete the enlargement upon the middle division at contract prices is,

For work under existing contracts made previous to Dec. 30th, 1851,.....	\$430,802 40	
For work put under contract on the 30th Dec., 1851, with 10 per cent added for contingencies,.	1,081,167 19	
Add for improving Orville, Limestone creek and Chittenango feeders, to supply the enlarged canal, which work is not under contract,.....	35,000 00	
Total amount required at contract prices (with 10 per cent added to cover contingencies) to complete the enlargement of the middle division,..	<u>\$1,546,969 59</u>	

Navigation upon the middle division of the Erie canal, was opened on the 15th day of April, and continued uninterrupted till the close in the fall, with the exception of the usual delays at the Seneca river, which always occur at stages of low water in that stream, and the unavoidable detention in the use of the old Port Byron and Sackett locks.

The navigation on the western portion of the Rome level has been greatly improved the past season by bringing into use about six miles of the enlargement, thus shortening the distance and avoiding several points where delays had almost daily occurred in past seasons.

A full head of water has been maintained on this portion of the canal, by bringing into use for the first time, the Erieville reservoir, the supply from which has provided abundant for the wants of navigation.

The double enlarged locks on this division of the Erie canal are all completed, or nearly so, with the exception of south lock No. 50, at the east end of the Jordan level, which will be finished early in the coming season, and all are in use, except the enlarged locks at west end of the Jordan level, and those at Port Byron.

To obviate the difficulties and delay referred to at the old Port Byron and Sackett locks, it is desirable to bring into use as soon as practicable the enlarged locks. They can be made available before the work of enlargement will be completed across the Cayuga marshes.

The improvements made by a change of level, and crossing the Seneca river by an aqueduct, when completed, dispenses with two locks. All the section work between Jordan and Montezuma may be completed and brought into use in the spring of 1853, and the new locks made available by raising the walls of the river lock one and a half feet, and the towing path of the old canal for about  $\frac{1}{4}$  of a mile. Previous to doing this, however, it will be necessary to provide for the junction of the Cayuga and Seneca canal, with the Erie canal.

A thorough system of repairs ought to be established upon all the State canals. But those upon the Erie canal should be commensurate with the progress of enlargement.

#### ERIEVILLE RESERVOIR.

This reservoir is located in the town of Nelson, Madison county, and is 20 miles from the Erie canal, at the Chittenango feeder.

The water from the reservoir flows first into the Cazenovia lake, and from thence into the Erie canal through the channel of the Chittenango creek and feeder. The flow line of the reservoir embraces about 340 acres, average depth  $21\frac{1}{2}$  feet, and its capacity equal to 318,423,600 cubic feet.

The work of repairing and strengthening the banks, mentioned in my report of last year, as being then nearly completed, was finished in due time. The discharge pipes were closed in March, and remained closed until the 16th of August, at that time the water in the reservoir had attained within one foot of the flow line or extreme height. On the 16th the discharge cocks were opened for the first time for the purpose of feeding the canal.

The supply during the dry part of the season has proved abundant for the wants of navigation. But in order that the State may with certainty control the feed from the reservoir; it is important that the water should be prevented from entering the lake as it now does. This can easily be accomplished, and at a small expense, by conveying the water in a small canal for a short distance along the shore of the lake, and extending the same around the south end of the first dam at the outlet of said lake. The water will then discharge into the Chittenango creek, and have free course to the Chittenango feeder.

At the latter place the control can be made effectual, in the arrangement that must be made for improving the feeder so as to supply the canal with 7 feet depth of water on the Rome level.

For the details of the foregoing statement and aggregates contained in this report in reference to the Erie canal enlargement,

I submit the following tabular statements, numberd 1, 2, 3, 4 and 5. Showing separately the length and estimated cost at contract prices, of work now under contract upon the eastern and western sub-divisions of the middle division of the Erie canal enlargement previous to December 30th, 1851, the amount of work done thereon and remaining to be done at contract prices; also the amount of work put under contract completed, and cancelled since January 1847, on the eastern sub-division of said middle division; also tabular statements, showing the work put under contract on the 30th December, 1851, the names of persons contracting therefor, the estimated cost of the same, and the cost at contract prices, on the respective sub-divisions.



(No. 1.)

## STATEMENT

*Showing the length and estimated cost at contract prices of work under contract upon the Eastern sub-division of the middle division of the enlargement of the Erie canal, previous to December 30th, 1851, the amount of work done thereon, and remaining to be done at contract prices.*

KIND OF WORK.	Length in miles, and No. of structure.	Estimated cost at contract prices.	Amount done at contract prices.	Amount remaining to be done at contract prices.
Section No. 152,.....	1.31	\$28,867 30	\$20,180 00	\$8,687 30
do 153,.....	0.98	19,743 50	13,640 00	6,103 50
do 154,.....	1.05	29,827 00	21,310 00	8,517 00
do 155,.....	1.01	23,279 40	16,990 00	6,289 40
do 156,.....	1.20	21,985 70	9,020 00	12,965 70
do 157,.....	1.31	19,659 20	13,760 00	5,899 20
do 158,.....	0.94	32,166 30	26,970 00	5,196 30
do 159,.....	0.99	22,018 70	15,250 00	6,768 70
do 160,.....	0.90	29,620 50	11,890 00	17,730 50
do 161,.....	0.85	12,637 80	11,300 55	1,337 25
do 172,.....	0.60	29,777 39	29,190 00	587 39
do 176,.....	0.92	23,039 50	20,590 80	2,448 70
do 177,.....	1.04	30,293 98	25,673 50	4,620 48
	13.11	\$322,916 27	\$235,664 85	\$87,251 42

Limestone Creek aqueduct, .....	0.04	\$21,793 70	\$19,680 00	\$2,113 70
Butternut do .....	0.06	20,268 73	13,410 00	6,858 73
		\$42,062 43	\$33,090 00	\$8,972 43
Bridges, .....	13	\$22,011 58	\$18,694 16	\$3,317 42
Culverts, .....	6	8,667 16	4,120 00	4,547 16
Waste-ways, .....	1	916 50	760 00	156 50
Double lock No. 50, .....	..	38,074 60	28,188 90	9,885 70
Paddle gates, .....	3 locks,	1,803 39	1,580 00	223 39
		\$436,451 93	\$322,097 91	\$114,354 02

(No. 2.)  
STATEMENT

*Showing the amount of work put under contract, completed and cancelled since January 1st, 1847, on the Eastern sub-division of the Middle division.*

KIND OF WORK.	Length in miles and No. of structures.	Estimated cost at contract prices.	Amount done at contract prices.
Section No. 162,.....	0.49	\$9,235 40	\$9,235 40
do 163,.....	0.64	10,241 08	10,241 08
do 164,.....	0.49	10,593 50	10,593 50
do 165 and 166,.....	1.39	33,000 57	33,000 55
do 171,.....	0.56	15,202 05	15,202 05
do 173,.....	0.90	25,032 62	25,032 62
do 174,.....	0.94	25,115 13	25,115 13
do 175,.....	1.00	26,111 18	26,111 18
	6.41	\$154,531 53	\$154,531 53
Culverts, .....			
Bridges, .....	5	5,830 32	\$5,830 32
Weigh lock, .....	5	9,768 45	9,768 45
Lock No. 47, .....	1	17,516 77	17,516 77
Paddle gates for ditto, .....	1	13,989 89	13,989 89
Discharge culvert to weigh lock, .....	.....	500 07	500 07
	.....	8,523 20	8,523 20

Weigh lock house,.....	8,283 37	8,283 37
Weigh scales,.....	4,050 00	4,050 00
Erieville reservoir, .....	34,424 82	34,424 82
Stop cock for do .....	535 00	535 00
Pipes for do .....	1,877 21	1,877 21
Iron fence in front of weigh lock house, .....	476 44	476 44
	\$260,307 07	\$260,307 07

## ABSTRACT.

KIND OF WORK.	Length in miles and No. of structures.	Estimated cost at con- tract prices.	Amount done at con- tract prices.		Amount remaining to be done at contract prices.
Sections, .....	19.52	\$477,447 80	\$390,196 38		\$87,251 42
Aqueducts, .....	2	42,062 43	33,090 00		8,972 43
Bridges, .....	18	31,780 03	28,462 61		3,317 42
Culverts, .....	10	14,497 48	9,950 32		4,547 16
Waste wier, .....	1	916 50	760 00		156 50
Locks, .....	2	52,064 49	42,178 79		9,885 70
Weigh lock, .....	1	17,516 77	17,516 77		.....
Paddle gates, .....	.....	2,303 46	2,080 07		223 39
Discharge culvert to weigh lock, .....	.....	8,523 20	8,523 20		.....
Weigh lock house, .....	.....	8,283 37	8,283 37		.....
Weigh scales, .....	.....	4,050 00	4,050 00		.....
Erieville reservoir, .....	.....	34,424 82	34,424 82		.....
Stop cock for do .....	.....	535 00	535 00		.....
Pipes for do .....	.....	1,877 21	1,877 21		.....
Iron fence in front of weigh lock house, .....	.....	476 44	476 44		.....
		\$696,759 00	\$582,404 98		\$114,354 02

(No. 3.)

## TABULAR STATEMENT

*Showing the length and estimated cost at contract prices of work under contract upon the Western sub division of the Middle division of the enlargement of the Erie canal, previous to December 30th, 1851; the amount of work done thereon, and remaining to be done, at contract prices; also the amount of payments made upon contracts abandoned and relet the 30th December, 1851.*

KIND OF WORK.	No. miles and No. structures	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at contract prices.	REMARKS.
Section No. 189, .....	0.96	\$19,146 60	\$3,490 00	\$15,666 60	
do 190, .....	1.05	21,786 00	7,010 00	14,726 00	
do 191, .....	0.99	18,155 50	2,800 00	14,355 50	
do 192, .....	.....	3,725 00	3,725 00	.....	Aban. and relet, pay'ts only are inc.
do 193, .....	.....	2,630 00	2,630 00	.....	do
do 194, .....	1.11	26,904 90	.....	26,904 90	do
do 196, .....	0.85	18,946 40	.....	18,946 40	
do 198, .....	1.35	35,247 97	9,205 00	26,043 97	
do 199, .....	.....	775 00	775 00	.....	do
do 200, .....	0.85	20,047 33	4,925 00	15,122 33	
do 201, .....	0.82	17,477 12	2,820 00	14,657 12	
do 202, .....	0.71	183,135 66	71,755 00	111,380 66	This sec. incl. Seneca river aqued't.
Total sections, .....	8.69	\$367,927 48	\$110,125 00	\$257,802 48	

# STATEMENT—(CONTINUED.)

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[ASSEMBLY

KIND OF WORK.	No. miles and No. structures.	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at contract prices.	REMARKS.
<i>Locks.</i>					
Double locks, No 51,.....	1	\$33,330 00	\$31,435 00	\$1,895 00	One mile west of the vill. of Jordan.
do 52,.....	1	46,745 00	46,245 00	500 00	Near the village of Port Byron.
Total locks,.....	2	\$80,075 00	\$77,680 00	\$2,395 00	
<i>Aqueducts</i>					
At Centreport, .....	1	\$14,185 80	\$1,330 00	\$12,855 80	Between Centreport and Weedsport.
Owaseo outlet, .....	1	22,439 94	.....	22,439 94	At Port Byron.
Crane brook, .....	1	12,163 42	8,820 00	3,343 42	East of the village of Montezuma.
Seneca river, see sec. 202,	1	.....	.....	.....	On the Montezuma marsh.
Total aqueducts,.....	4	\$48,789 16	\$10,150 00	\$38,639 16	
Waste weir at Putnam brook,	1	\$2,561 08	.....	\$2,561 08	Total of waste weirs.
<i>Culverts.</i>					
On section No. 193,.....	1	\$1,153 57	\$80 00	\$1,073 57	Near Weedsport.
do 196,.....	1	1,280 95	317 00	963 95	Near Port Byron.
Total culverts, .....	2	\$2,434 52	\$397 00	\$2,037 52	

<i>Road-bridges,</i> (including superstructure.)						
On section No. 190,.....		3	\$5,300 13	.....	\$5,300 13	
do	192,.....	1	1,766 71	.....	1,766 71	
do	193,....	2	4,483 40	\$365 00	4,118 40	Weedsport.
do	194,.....	1	1,763 90	215 00	1,548 90	Centreport.
do	198,....	.....	345 00	345 00	.....	Aban. and relet, paym'ts only inc.
do	200,.....	.....	475 09	475 00	.....	do
do	201,.....	.....	50 00	50 00	.....	do
Total bridges,.....		7	\$14,184 14	\$1,450 00	\$12,734 14	



# STATEMENT—(CONTINUED.)

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[ASSEMBLY

KIND OF WORK.	No. miles and No. structures.	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at contract prices.	REMARKS.
<i>Locks.</i>					
Double locks, No 51,.....	1	\$33,330 00	\$31,435 00	\$1,895 00	One mile west of the vill. of Jordan.
do 52,.....	1	46,745 00	46,245 00	500 00	Near the village of Port Byron.
Total locks,.....	2	\$80,075 00	\$77,680 00	\$2,395 00	
<i>Aqueducts</i>					
At Centreport,.....	1	\$14,185 80	\$1,330 00	\$12,855 80	Between Centreport and Weedsport.
Owaseo outlet,.....	1	22,439 94	.....	22,439 94	At Port Byron.
Crane brook,.....	1	12,163 42	8,820 00	3,343 42	East of the village of Montezuma.
Seneca river, see sec. 202,	1	.....	.....	.....	On the Montezuma marsh.
Total aqueducts,.....	4	\$48,789 16	\$10,150 00	\$38,639 16	
Waste weir at Putnam brook,	1	\$2,561 08	.....	\$2,561 08	Total of waste weirs.
<i>Culverts.</i>					
On section No. 193,.....	1	\$1,153 57	\$80 00	\$1,073 57	Near Weedsport.
do 196,.....	1	1,280 95	317 00	963 95	Near Port Byron.
Total culverts,.....	2	\$2,434 52	\$397 00	\$2,037 52	

<i>Road bridges,</i> (including superstructure,)						
On section No. 190,.....	3	\$5,300 13	.....	\$5,300 13		
do 192,.....	1	1,766 71	.....	1,766 71		
do 193,.....	2	4,483 40	\$365 00	4,118 40	Weedsport.	
do 194,.....	1	1,763 90	215 00	1,548 90	Centreport.	
do 198,.....	.....	345 00	345 00	.....	Aban. and relet, paym'ts only inc.	
do 200,.....	.....	475 09	475 00	.....	do	do
do 201,.....	.....	50 00	50 00	.....	do	do
Total bridges,.....	7	\$14,184 14	\$1,450 00	\$12,734 14		

# STATEMENT—(CONTINUED.)

74

[ASSEMBLY

KIND OF WORK.	No. miles and No. structures.	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at con- tract prices.	REMARKS.
<i>Locks.</i>					
Double locks, No 51,.....	1	\$33,330 00	\$31,435 00	\$1,895 00	One mile west of the vill. of Jordan.
do 52,.....	1	46,745 00	46,245 00	500 00	Near the village of Port Byron.
Total locks,.....	2	\$80,075 00	\$77,680 00	\$2,395 00	
<i>Aqueducts</i>					
At Centreport, .....	1	\$14,185 80	\$1,330 00	\$12,855 80	Between Centreport and Weedsport.
O wasco outlet, .....	1	22,439 94	.....	22,439 94	At Port Byron.
Crane brook,.....	1	12,163 42	8,920 00	3,243 42	East of the village of Montezuma.
Seneca river, see sec. 202,	1	.....	.....	.....	On the Montezuma marsh.
Total aqueducts,.....	4	\$48,789 16	\$10,150 00	\$38,639 16	
Waste weir at Putnam brook,	1	\$2,561 08	.....	\$2,561 08	Total of waste weirs.
<i>Culverts.</i>					
On section No. 193,.....	1	\$1,153 57	\$80 00	\$1,073 57	Near Weedsport.
do 196,.....	1	1,280 95	217 00	963 95	Near Port Byron.
Total culverts,.....	2	\$2,434 52	\$297 00	\$2,037 52	

<i>Road bridges,</i> (including superstructure,)						
On section No. 190,.....		3	\$5,300 13	.....	\$5,300 13	
do	192,.....	1	1,766 71	.....	1,766 71	
do	193,.....	2	4,483 40	.....	4,118 40	Weedsport.
do	194,.....	1	1,763 90	.....	1,648 90	Centreport.
do	198,.....	.....	345 00	.....	.....	Aban. and relet, paym'ts only inc.
do	200,.....	.....	475 09	.....	.....	do do
do	201,.....	.....	50 00	.....	.....	do do
Total bridges,.....		7	\$14,184 14	\$1,450 00	\$12,734 14	

# STATEMENT—(CONTINUED.)

74

[ASSEMBLY

KIND OF WORK.	No. miles and No. structures.	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at contract prices.	REMARKS.
<i>Locks.</i>					
Double locks, No 51,.....	1	\$33,330 00	\$31,435 00	\$1,895 00	One mile west of the vill. of Jordan.
do 52,.....	1	46,745 00	46,245 00	500 00	Near the village of Port Byron.
Total locks,.....	2	\$80,075 00	\$77,680 00	\$2,395 00	
<i>Aqueducts</i>					
At Centreport, .....	1	\$14,185 80	\$1,330 00	\$12,855 80	Between Centreport and Weedsport.
Owasco outlet, .....	1	22,439 94	.....	22,439 94	At Port Byron.
Crane brook, .....	1	12,163 42	8,920 00	3,243 42	East of the village of Montezuma.
Seneca river, see sec. 202,	1	.....	.....	.....	On the Montezuma marsh.
Total aqueducts,.....	4	\$48,789 16	\$10,150 00	\$38,639 16	
Waste weir at Putnam brook,	1	\$2,561 08	.....	\$2,561 08	Total of waste weirs.
<i>Culverts.</i>					
On section No. 193,.....	1	\$1,153 57	\$80 00	\$1,073 57	Near Weedsport.
do 196,.....	1	1,280 95	217 00	963 95	Near Port Byron.
Total culverts, .....	2	\$2,434 52	\$397 00	\$2,037 52	

<i>Road-bridges,</i> (including superstructure.)						
On section No. 190,.....		3	\$5,300 13	.....	\$5,300 13	
do	192,.....	1	1,766 71	.....	1,766 71	
do	193,.....	2	4,483 40	\$365 00	4,118 40	Weedsport.
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do	198,.....	.....	345 00	345 00	.....	Aban. and relet, paym'ts only inc.
do	200,.....	.....	475 09	475 00	.....	do
do	201,.....	.....	50 00	50 00	.....	do
Total bridges,.....		7	\$14,184 14	\$1,450 00	\$12,734 14	

# STATEMENT—(CONTINUED.)

74

[ASSEMBLY

KIND OF WORK.	No. miles and No. structures.	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at contract prices.	REMARKS.
<i>Locks.</i>					
Double locks, No 51,.....	1	\$33,330 00	\$31,435 00	\$1,895 00	One mile west of the vill. of Jordan.
do 52,.....	1	46,745 00	46,245 00	500 00	Near the village of Port Byron.
Total locks,.....	2	\$80,075 00	\$77,680 00	\$2,395 00	
<i>Aqueducts</i>					
At Centreport, .....	1	\$14,185 80	\$1,330 00	\$12,855 80	Between Centreport and Weedsport.
Owaseo outlet, .....	1	22,439 94	.....	22,439 94	At Port Byron.
Crane brook, .....	1	12,163 42	8,820 00	3,343 42	East of the village of Montezuma.
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Total aqueducts,.....	4	\$48,789 16	\$10,150 00	\$38,639 16	
Waste weir at Putnam brook,	1	\$2,561 08	.....	\$2,561 08	Total of waste weirs.
<i>Culverts.</i>					
On section No. 193,.....	1	\$1,153 57	\$80 00	\$1,073 57	Near Weedsport.
do 196,.....	1	1,280 95	317 00	963 95	Near Port Byron.
Total culverts, .....	2	\$2,434 52	\$397 00	\$2,037 52	

<i>Road-bridges,</i> (including superstructure.)						
On section No. 190,.....		3	\$5,300 13	.....	\$5,300 13	
do	192,.....	1	1,766 71	.....	1,766 71	
do	193,.....	2	4,483 40	\$365 00	4,118 40	Weedsport.
do	194,.....	1	1,763 90	215 00	1,548 90	Centreport.
do	198,.....	.....	345 00	345 00	.....	Aban. and relet, paym'ts only inc.
do	200,.....	.....	475 09	475 00	.....	do
do	201,.....	.....	50 00	50 00	.....	do
Total bridges,.....		7	\$14,184 14	\$1,450 00	\$12,734 14	



## STATEMENT—(CONTINUED.)

KIND OF WORK.	No. miles and No. structures.	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at con- tract prices.	REMARKS.
<i>Locks.</i>					
Double locks, No 51,.....	1	\$33,330 00	\$31,435 00	\$1,895 00	One mile west of the vill. of Jordan.
do 52,.....	1	46,745 00	46,245 00	500 00	Near the village of Port Byron.
Total locks,.....	2	\$80,075 00	\$77,680 00	\$2,395 00	
<i>Aqueducts</i>					
At Centreport, .....	1	\$14,185 80	\$1,330 00	\$12,855 80	Between Centreport and Weedsport.
Owasco outlet, .....	1	22,439 94	.....	22,439 94	At Port Byron.
Crane brook, .....	1	12,163 42	8,820 00	3,343 42	East of the village of Montezuma.
Seneca river, see sec. 202,	1	.....	.....	.....	On the Montezuma marsh.
Total aqueducts,.....	4	\$48,789 16	\$10,150 00	\$38,639 16	
Waste weir at Putnam brook,	1	\$2,561 08	.....	\$2,561 08	Total of waste weirs.
<i>Culverts.</i>					
On section No. 193,.....	1	\$1,153 57	\$80 00	\$1,073 57	Near Weedsport.
do 196,.....	1	1,280 95	317 00	963 95	Near Port Byron.
Total culverts, .....	2	\$2,434 52	\$397 00	\$2,037 52	

Road-bridges, (including superstructure,)						
On section No. 190,.....	2	\$5,300 13	.....		\$5,300 13	
do 192,.....	1	1,766 71	.....		1,766 71	
do 193,.....	2	4,483 40		\$365 00		Weedsport.
do 194,.....	1	1,763 90		215 00		Centreport.
do 198,.....	.....	345 00		345 00		Aban. and relet, paym'ts only inc.
do 200,.....	.....	475 09		475 00		do do
do 201,.....	.....	50 00		50 00		do do
Total bridges,.....	7	\$14,184 14		\$1,450 00	\$12,734 14	

## ABSTRACT.

KIND OF WORK.	No. of miles and No. of structures.	Estimated cost at contract prices.	Amount of work done.	Am. remaining to be done at con. prices.
Sections, .....	8.69 miles, .....	\$367, 927 48	\$110, 125 00	\$257, 802 48
Locks, .....	2 double locks, .....	80, 075 00	77, 680 00	2, 395 00
Aqueducts, .....	4 aqueducts, .....	48, 789 16	10, 150 00	38, 639 16
Waste weir, .....	1 waste weir, .....	2, 561 08	.....	2, 561 08
Culverts, .....	2 culverts, .....	2, 434 52	397 00	2, 037 52
Road-bridges, .....	7 bridges, .....	14, 184 14	1, 450 00	12, 734 14
		\$515, 971 88	\$199, 802 00	\$316, 169 38



## ABSTRACT.

KIND OF WORK.	No. of miles and No. of structures.	Estimated cost at contract prices.	Amount of work done.	Am. remaining to be done at con. prices.
Sections,.....	8.69 miles,.....	\$267,927 48	\$110,125 00	\$257,802 48
Locks,....	2 double locks,.....	80,075 00	77,680 00	2,395 00
Aqueducts,.....	4 aqueducts,.....	48,789 16	10,150 00	38,639 16
Waste weir,.....	1 waste weir,.....	2,561 08	.....	2,561 08
Culverts,.....	2 culverts,.....	2,434 52	397 00	2,037 52
Road-bridges,.....	7 bridges,.....	14,184 14	1,450 00	12,734 14
		\$515,971 88	\$199,802 00	\$316,169 38



(No. 4.)

## TAMMARA STATEMENT

with the names of the persons contracting therefor, the estimated cost of the enlargement of the Middle division of the

Section No.	Contractor	Estimated cost, including 10 per cent. for contingencies.	Estimated cost at contract prices.
135	James B. McArthur	\$ 14,700 00	\$22,977 90
136	do	14,700 00	26,304 02
137	James B. McArthur	14,700 00	22,739 00
138	do	14,700 00	18,705 60
139	James B. McArthur	14,700 00	21,819 00
140	do	14,700 00	12,170 00
141	do	14,700 00	22,109 00
142	do	14,700 00	27,339 00
143	do	14,700 00	27,339 00
144	do	14,700 00	27,339 00
145	do	14,700 00	27,339 00
146	do	14,700 00	27,339 00
147	do	14,700 00	27,339 00
148	do	14,700 00	27,339 00
149	do	14,700 00	27,339 00
150	do	14,700 00	27,339 00
151	do	14,700 00	27,339 00
152	do	14,700 00	27,339 00
153	do	14,700 00	27,339 00
154	do	14,700 00	27,339 00
155	do	14,700 00	27,339 00
156	do	14,700 00	27,339 00
157	do	14,700 00	27,339 00
158	do	14,700 00	27,339 00
159	do	14,700 00	27,339 00
160	do	14,700 00	27,339 00
161	do	14,700 00	27,339 00
162	do	14,700 00	27,339 00
163	do	14,700 00	27,339 00
164	do	14,700 00	27,339 00
165	do	14,700 00	27,339 00
166	do	14,700 00	27,339 00
167	do	14,700 00	27,339 00
168	do	14,700 00	27,339 00
169	do	14,700 00	27,339 00
170	do	14,700 00	27,339 00
171	do	14,700 00	27,339 00
172	do	14,700 00	27,339 00
173	do	14,700 00	27,339 00
174	do	14,700 00	27,339 00
175	do	14,700 00	27,339 00
176	do	14,700 00	27,339 00
177	do	14,700 00	27,339 00
178	do	14,700 00	27,339 00
179	do	14,700 00	27,339 00
180	do	14,700 00	27,339 00
181	do	14,700 00	27,339 00
182	do	14,700 00	27,339 00
183	do	14,700 00	27,339 00
184	do	14,700 00	27,339 00
185	do	14,700 00	27,339 00
186	do	14,700 00	27,339 00
187	do	14,700 00	27,339 00
188	do	14,700 00	27,339 00
189	do	14,700 00	27,339 00
190	do	14,700 00	27,339 00
191	do	14,700 00	27,339 00
192	do	14,700 00	27,339 00
193	do	14,700 00	27,339 00
194	do	14,700 00	27,339 00
195	do	14,700 00	27,339 00
196	do	14,700 00	27,339 00
197	do	14,700 00	27,339 00
198	do	14,700 00	27,339 00
199	do	14,700 00	27,339 00
200	do	14,700 00	27,339 00

do 150,.....	do do .....	1.31	74,996 02	67,815 40
do 151,.....	W. & C. C. Barker, .....	1.37	49,148 11	39,417 20
	Add 10 per cent. for contingencies,			\$443,841 12
				44,384 11
		16.99	\$499,696 19	\$438,225 23
<i>Culverts.</i>				
On sections 135, 136, and 144,	Brown, Downer & Co., .....	6	Estimated cost, including 5 pr. ct. for contingencies.	\$8,034 85
do 146 and 147,.....	do do .....	2	8,367 82	3,335 72
do 137, .....	Israel S. Parker, .....	2	3,620 31	2,971 09
do 138, .....	do do .....	1	2,895 31	1,757 25
do 139, sta. 1, .....	Otis B. Howe, .....	1	1,855 35	1,915 05
do 139, sta. 20, .....	do do .....	1	1,978 52	6,398 50
do 141, feeder, .....	do do .....	1	6,363 00	1,030 75
do 141, sta. 70, .....	do do .....	1	1,050 00	5,970 60
do 145, .....	Fisher & Groat, .....	1	5,969 27	3,984 84
do 149, .....	Jerry B. Rice, .....	1	5,592 45	1,340 20
do 150, .....	do do .....	1	1,363 11	6,691 90
do 151, .....	do do .....	1	6,993 42	1,155 14
			1,178 56	
	Add 5 per cent. for contingencies,			\$44,585 89
				2,329 29
		19	\$47,227 12	\$46,815 18



## TABULAR STATEMENT

*Showing the work put under contract December 30th, 1851, the names of the persons contracting therefor, the estimated cost of the same, and the cost at contract prices, on the Eastern sub-division of the Middle division of the enlargement of the Erie canal.*

KIND OF WORK AND WHERE LOCATED.	Names of Contractors.	Length in miles and No. of structures.	Estimated cost, including 10 per cent. for contingencies.	Estimated cost at contract prices.
SECTIONS.				
Section No. 135, .....	Lewis & Morton, .....	0.97	\$25,360 39	\$22,977 90
do 136, .....	do do .....	1.08	29,186 52	26,364 62
do 137, .....	Israel S. Parker, .....	0.94	25,013 34	22,739 90
do 138, .....	do do .....	0.81	20,596 40	18,705 50
do 139, .....	Norton & Hess, .....	0.85	23,706 98	21,219 00
do 140, .....	Henry S. Webb, .....	0.99	13,315 50	12,170 00
do 141, .....	do do .....	0.92	25,258 20	23,169 00
do 142, .....	Oliver P. Root, .....	1.01	32,023 20	28,729 00
do 143, .....	Pratt, Hatch & Co., .....	1.05	31,716 74	27,832 00
do 144, .....	Otis B. Howe, .....	0.98	23,586 20	21,123 60
do 145, .....	do do .....	1.02	25,062 62	22,763 20
do 146, .....	Crounse & Shoemaker, .....	1.06	28,356 02	23,499 20
do 147, .....	Myers & Johnson, .....	1.02	24,533 30	22,462 50
do 148, .....	Nicholas H. Decker, .....	0.95	28,224 02	25,283 20
do 149, .....	Jerry B. Rice, .....	0.66	19,612 63	17,565 90

do	150,.....	do	do	1.31	74,996 02	67,815 40
do	151,.....	W. & C. C. Barker, .....		1.37	49,148 11	39,417 20
<hr/>						
		Add 10 per cent. for contingencies,		.....		\$448,841 12
				16.99	\$499,696 19	44,384 11
<hr/>						
<i>Culverts.</i>						
On sections 135, 136, and 144,						
do	146 and 147,.....	Brown, Downer & Co., .....		6	Estimated cost, including 5 pr. ct. for contingencies.	\$8,034 85
do	137, .....	do do		2	8,367 82	3,335 72
do	138, .....	Israel S. Parker,.....		2	3,620 31	2,971 09
do	139, sta. 1, .....	do do		1	2,895 31	1,757 25
do	139, sta. 20, .....	Otis B. Howe,.....		1	1,855 35	1,915 05
do	141, feeder,.....	do do		1	1,978 52	6,398 50
do	141, sta. 70, .....	do do		1	6,363 00	1,030 75
do	145, .....	Fisher & Groat, .....		1	1,050 00	5,970 60
do	149, .....	Jerry B. Rice, .....		1	5,969 27	3,984 84
do	150, .....	do do		1	5,592 45	1,340 20
do	151, .....	do do		1	1,363 11	6,691 90
					6,993 42	1,155 14
					1,178 56	
<hr/>						
		Add 5 per cent. for contingencies,		.....		\$44,585 89
				19	\$47,227 12	2,229 29
<hr/>						
						\$46,815 18

# STATEMENT—(CONTINUED.)

KIND OF WORK AND WHERE LOCATED.	Names of contractors.	Length in miles and No of structures.	Estimated cost including 5 per cent for contingencies.	Estimated cost at contract prices.
<i>Aqueduct.</i> At Chittenango, .....	Wells & Thomas, ..... Add 5 per ct. for contingencies,	1 .....	\$18,204 59 .....	\$14,901 05 745 05
<i>Waste weir,</i> On section 141, .....	Otis B. Howe, ..... Add 5 per ct. for contingencies,	1 .....	\$18,204 59 \$2,647 93 .....	\$15,646 10 \$2,693 84 134 69
<i>Dam and Guard gate.</i> On section 141, .....	Groat & Fisher, ..... Add 5 per ct. for contingencies,	1 .....	\$2,647 93 \$2,206 78 .....	\$2,828 53 \$2,396 70 119 83
<i>Bridge abutments.</i> On sections 135, 136 and 140, .	Birchard, Bixby & Co., ..... Add 5 per ct. for contingencies,	4 .....	\$2,206 78 \$6,754 44 .....	\$2,516 53 \$6,011 80 360 70
			\$6,754 44	\$6,372 50

On sections 137, 143, .....	Shanahan, Thompson & Co., .....	.....	\$3, 142 86	\$2, 724 80
	Add 5 per ct. for contingencies,	.....	.....	136 24
			\$3, 142 86	\$2, 861 04
On sections 145, 146 and 148, .	Swain & Nodwell, .....	.....	\$10, 366 02	\$7, 392 00
	Add 5 per ct. for contingencies,	.....	.....	369 60
			\$10, 366 02	\$7, 761 60
On sections 150 and 151, .....	Swain & Nodwell, .....	.....	\$4, 497 15	\$3, 282 90
	Add 5 per ct. for contingencies,	.....	.....	164 14
			\$4, 497 15	\$3, 447 04
<i>Bridge Superstructure.</i>				
3 road bridges with side walks,	Corning & Townsend, .....	As gate span.	\$4, 725 00	\$6, 430 50
11 common road bridges, .....	do .....	225	9, 095 62	15, 675 00
1 farm bridge, .....	do .....	75	511 87	712 50
	Add 5 per ct. for contingencies,	.....	.....	\$22, 818 00
			\$14, 332 49	1, 140 90
				\$23, 958 90

## ABSTRACT.

	Length in miles and No. of structures.	Estimated cost, including 10 pr. ct. for contingencies.	Estimated cost at contract prices, including 10 pr. ct.	Estimated cost including 5 pr. ct. for contingencies.	Estimated cost at contract prices, including 5 pr. ct.
Sections, .....	16.99	\$499,696 19	\$488,225 23		
Culverts, .....	19.	.....	.....	\$47,227 12	\$46,815 18
Aqueducts, .....	1	.....	.....	18,204 59	15,646 10
Waste weirs, .....	1	.....	.....	2,647 93	2,828 53
Dam and guard gate, .....	1	.....	.....	2,906 78	2,516 53
Bridge abutments, .....	.....	.....	.....	24,760 47	20,442 18
do superstructure, .....	.....	.....	.....	14,332 49	23,928 90
		\$499,696 19	\$488,225 23	\$109,379 30	\$112,207 42

(No. 5.)

## TABULAR STATEMENT

*Showing the work put under contract, December 30th, 1851; the names of persons contracting therefor; the estimated cost of the same, and the cost at contract prices on the Western sub-division of the Middle division of the enlargement of the Erie canal.*

NO. OF SECTION AND KIND OF STRUCTURE.	Names of Contractors.	No. of miles and No. of structures.	Estimated cost including 10 per. ct. for contingencies.	Estimated cost at contract prices.	REMARKS.
Section No. 192,.....	Anson Sutherland & Co.,	1.01	\$24,632 85	\$22,947 00	Ab. by f'mr con. and relet.
do 193,.....	S. P. Jacobs & Co.,.....	1.08	34,195 70	29,769 00	do
do 195,.....	Emery Rosebrook & Co.,	0.79	37,356 00	34,360 00	do
do 197,.....	McQuigg & Foster,.....	0.78	28,979 50	21,395 50	do
do 199,.....	Lester & Stokes,.....	0.98	42,709 26	29,333 15	do
do 203,.....	George Smith,.....	1.00	137,038 22	119,222 80	
do 204,.....	Dimmick Weed & Co.,...	1.37	97,027 81	91,895 38	
do 205,.....	James R. Webster & Co.,	0.80	18,465 92	16,736 00	
do 206,.....	Wm. A. Sackett & Co.,...	0.79	18,479 58	16,111 63	
				381,770 46	
	Add for contin. 10 pr. ct.	.....	.....	38,177 04	
		8.55	\$439,784 84	\$419,947 50	Estim'd to com. sections.

## ABSTRACT.

	Length in miles and No. of structures.	Estimated cost, including 10 pr. ct. for contingencies.	Estimated cost at contract prices, including 10 pr. ct.	Estimated cost including 5 pr. ct. for contingencies.	Estimated cost at contract prices, including 5 pr. ct.
Sections, .....	16.99	\$499,696 19	\$488,225 23		\$46,815 18
Culverts, .....	19.	.....	.....	\$47,227 12	15,646 10
Aqueducts, .....	1	.....	.....	18,204 59	2,828 53
Waste weirs, .....	1	.....	.....	2,647 93	2,516 53
Dam and guard gate, .....	1	.....	.....	2,206 78	20,442 18
Bridge abutments, .....	.....	.....	.....	24,760 47	23,928 90
do superstructure, .....	.....	.....	.....	14,332 49	
		\$499,696 19	\$488,225 23	\$109,379 30	\$112,207 42

(No. 5.)

## TABULAR STATEMENT

*Showing the work put under contract, December 30th, 1851; the names of persons contracting therefor; the estimated cost of the same, and the cost at contract prices on the Western sub-division of the Middle division of the enlargement of the Erie canal.*

NO. OF SECTION AND KIND OF STRUCTURE.	Names of Contractors.	No. of miles and No. of structures.	Estimated cost including 10 per. ct. for contingencies.	Estimated cost at contract prices.	REMARKS.
Section No. 192,.....	Anson Sutherland & Co.,	1.01	\$24,632 85	\$22,947 00	Ab. by firm con. and relet.
do 193,.....	S. P. Jacobs & Co.,.....	1.08	34,195 70	29,769 00	do
do 195,.....	Emery Rosebrook & Co.,	0.79	37,356 00	34,360 00	do
do 197,.....	McQuigg & Foster,.....	0.78	28,979 50	21,395 50	do
do 199,.....	Lester & Stokes,.....	0.98	42,709 26	29,333 15	do
do 203,.....	George Smith,.....	1.00	137,038 22	119,222 80	
do 204,.....	Dimmick Weed & Co.,...	1.37	97,027 81	91,895 38	
do 205,.....	James R. Webster & Co.,	0.80	18,465 92	16,736 00	
do 206,.....	Wm. A. Sackett & Co.,...	0.79	18,479 58	16,111 63	
				381,770 46	
	Add for contin. 10 pr. ct.	.....	.....	38,177 04	
		8.55	\$439,784 84	\$419,947 50	Estim'd to com. sections.



## STATEMENT—(CONTINUED.)

NO. OF SECTION AND KIND OF STRUCTURE.	Names of contractors.	No. of miles, and No. of structures.	Estimated cost includ. 10 per ct. for contingenc's.	Estimated cost at contract prices.	REMARKS.
<i>Culverts.</i>					
Section No. 189,.....	Emery Rosebrook,.....	2	\$3,399 11	\$3,242 64	Ab. by f'mr con. and relet.
do 190,.....	do .....	1	1,799 27	1,378 35	do
do 191,.....	S. P. Jacobs & Co.,.....	2	3,040 97	2,747 15	do
do 192,.....	Androus & Wiley,.....	1	1,769 24	1,740 91	do
do 197,.....	McCartney & Bishop,.....	1	2,168 16	1,693 31	do
do 201,.....	do .....	2	3,469 86	3,064 60	do
do 204,.....	Samuel Bell & Co.,.....	1	1,117 65	1,099 51	
do 205,.....	do .....	1	1,359 83	1,351 86	
Add for contin. 40 pt. ct.		.....	.....	16,318 33	
		11	\$18,124 09	\$17,950 16	Estimated to com. culverts.
<i>Bridge abutments.</i>					
Section No. 189,.....	McQuigg & Foster, .....	1 farm	\$1,317 14	\$1,168 05	
do 192,.....	do .....	1 do	1,317 14	1,168 05	
do 194,.....	do .....	1 do	1,317 14	1,168 05	
do 197,.....	Hiram E. Storrs & Co.,...	3 road	7,315 73	5,744 56	Ab. by f'mr con. and relet.
do 198,.....	do .....	1 do	2,093 46	1,680 16	do
do 200,.....	S. P. Jacobs & Co.,.....	1 ro'd&f'm	3,410 60	2,862 77	Road bridge ab. and relet.

do	201,.....	Hiram E. Storrs & Co.,...	3 road, 1 ch.	7,774 75	6,154 82	3 road bridges	do
do	204,.....	do	1 rd. & ch.	1,596 80	1,176 70		
		Add for contin. 10 pr. ct.	.....	.....	21,123 16		
		Deduct materials on hand,	.....	26,142 76	2,112 31		
			.....	905 75	23,235 47		
			.....		905 75	Materials delivered by [former contractors.	
			14 bridges.	\$25,237 01	\$22,329 72	Estimated to complete [bridge abutments.	
			Aggregate span.	10 per cent for contingencies not included.			
		Corning & Townsend,....	82 feet,...	\$1,650 00	\$2,343 56	In village of Port Byron.	
		do	692 " ...	8,900 00	13,148 00		
		do	300 " ...	2,000 00	2,850 00		
			...	\$12,550 00	\$18,344 56	Estimated to complete [bridge superstructure.	
		Seymour & Wood,.....	4 locks, ...	\$2,200 00	\$2,165 60	Double locks No. 51, & 52.	
		Valve gates.					
		Locks No. 51 and 52,...					

*Bridge superstructure.*

1 road bridge with side  
walks, section 197,...  
9 rd. bridges, secs. 197,  
198, 200, 201 and 204,  
4 farm bridges, secs. 189,  
192, 194 and 200,...

*Valve gates.*

Locks No. 51 and 52,...

## ABSTRACT.

KIND OF WORK.	No. of miles and No. of structures.	Estimated cost including 10 per cent for contingencies.	Estimated cost at contract prices, including 10 per cent.
Sections, .....	8.55 miles, .....	\$439,784 84	\$419,947 50
Culverts, .....	11 culverts, .....	18,124 09	17,950 16
Bridge abutments, .....	14 bridges, .....	25,237 01	22,329 72
do superstructures, .....	do " .....	12,550 00	18,341 56
Valve gates, .....	4 locks, .....	2,200 00	2,165 60
		\$497,895 94	\$480,734 54

## GENERAL SUMMARY.

	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at contract prices.
Eastern sub-division, work completed and contracts cancelled,....	\$260,307 07	\$260,307 07	.....
do do under contract previous to Dec. 30,....	436,451 93	322,097 91	\$114,354 02
do do placed under contract do ....	600,432 65	.....	600,432 65
Western do do under contract previous to do ....	515,971 38	199,802 00	316,169 38
do do placed under contract do ....	480,734 54	.....	480,734 54
	\$2,293,897 57	\$782,206 98	\$1,511,690 59

## OSWEGO CANAL.

Originally, there were 18 lift locks, and 6 guard locks on this canal. Lift locks Nos. 5, 8, 9, 10, and 18 are now rebuilt and enlarged. Lift lock No. 4, at Salina, and guard lock No. 4, at Fulton, are to be dispensed with.

Lock No. 5, commonly called Mud lock, was rebuilt in 1837. Nos. 8, 9 and 10 were brought into use last spring, and lock No. 18, at Oswego, is completed, but cannot be made available until lock 17, and some section work shall be constructed.

In order to carry into effect chapter 501, Laws of 1851, which provides for "the enlargement of the locks of the Oswego canal," surveys have been made, and locations established for all the remaining locks, to be rebuilt and enlarged on this canal, with the exception of lift lock No. 16, and guard lock No. 6 at Oswego. These two locks were involved in the question of separating the canal from the river at Oswego, which question was not decided by the Canal Board in time to prepare them for letting in connection with the others. They can very soon be prepared for contract, so that no serious embarrassment will be occasioned by the delay.

The location of guard lock No. 2 was reserved by the Canal Board for further action, in consequence of a petition from citizens of Phoenix, asking that said lock and the Horse-shoe dam may be abandoned; and a canal substituted for slack water navigation. All needful examinations will soon be made, and the question again submitted.

Eleven lift locks and three guard locks with the necessary section work to bring them into use, were contracted for on the 30th December last, to be completed by the 15th day of April, 1854.

The estimated cost of these 14 locks, including the section work, with 8 per cent added to cover contingencies, amounts to ..... \$194,893 00

The cost of the same work at contract prices, including like per centage for contingencies, amounts to 487,285 00

Less than the estimate, ..... \$7,608 00

The amount already expended in constructing locks

Nos. 8, 9, 10 and 18, is, ..... \$124,369 19

Amount required to complete said locks is ..... 4,300 00

Total cost of the 4 locks and section work, ... \$128,669 19

Which is an average of \$32,167 $\frac{3}{8}$  per lock. These locks having been built under the old specifications, are in my judgment inferior to none of the enlarged locks on the Erie canal.

It may be proper to remark, that in enlarging the locks of the Oswego canal, new locations must in all cases be obtained, except for guard locks, and this involves the necessity of constructing more or less section work at the head and foot of every lock, which being river work, is heavy and expensive, and constitutes a large item in the estimate.

Act, chapter 501, appropriates \$400,000 for rebuilding the locks of the Oswego canal, and provides, "that after ascertaining the cost of the locks at contract prices, the balance shall be used in enlarging the section work."

I would therefore recommend, and respectfully urge the importance of completing the section work between locks 8 and 9 at Fulton, as most essential in the improvement of navigation at that place.

The same remark is applicable to various places between Syracuse and Oswego, and indeed, the wants of navigation require that 7 feet of water be attained throughout the whole line as soon as practicable under the law referred to.

The general repairs should be regulated to correspond with the improvement that may be made under the aforesaid act.

The following table, No. 6, exhibits in detail the estimated cost at contract prices, of work put under contract previous to December 30th, 1851, the amount done thereon at contract prices, and the amount remaining to be done on the first of January, 1852, for constructing locks Nos. 8, 9, 10 and 18.

Table No. 7 shows the work put under contract on the 30th December, 1851, the names of the persons contracting therefor, and the estimated cost of the same, and the cost at contract price.

(No. 6.)

## TABULAR STATEMENT

*Showing the work under contract on the Oswego canal, previous to 30th December, 1851, the estimated cost at contract prices, the amount of work done, and remaining to be done on the 30th of December, 1851.*

STRUCTURES.	Contractors' Names.	Estimated cost at contract prices.	Amount paid.	Amount remaining to be paid.	REMARKS.
Lock No. 8, .....	William Baldwin, ..	\$46,265 00	\$44,765 00	\$1,500 00	Comp'd, final estimate not paid.
do 9, .....	Ashley H. Ball, ..	25,109 92	25,109 92	...	Final estimate paid.
do 10, .....	do do ..	25,744 27	25,744 27	.....	" "
do 18, .....	N. Shippy & Co. ..	29,250 00	26,750 00	2,500 00	Comp'd, final estimate not paid.
Valve gates for lock 9	Alfred Bell, .....	350 00	350 00	.....	Final estimate paid.
do do 8, 10, 18,	Seymour & Weed,	1,950 00	1,650 00	300 00	
		\$128,669 19	\$124,369 19	\$4,300 00	



(No. 7.)

**TABULAR STATEMENT.**—*Showing the work put under contract December 30th, 1851; the names of the persons contracting therefor, the estimated cost of the same, and the cost at contract prices on the Oswego canal.*

STRUCTURE OR WORK.	Names of Contractors.	Estimated cost, including 8 per ct. for contingencies.		Estimated cost at contract prices.
Lift lock No. 1,.....	Robert Gere & Co.,.....	\$37,492 00		\$33,476 00
do 2,.....	do .....	36,598 00		32,943 00
do 3,.....	Dodge & Comstock,.....	38,986 00		34,491 50
do 6,.....	Peter Dunn & Co.,.....	27,969 00		23,394 00
do 7,.....	M. J. Marlett & Co.,.....	29,577 00		25,577 50
do 11,.....	A. B. Dickinson,.....	36,152 00		33,402 00
do 12,.....	do .....	40,649 00		39,439 50
do 13,.....	A. G. Sage & Co.,.....	35,795 00		31,780 50
do 14,.....	A. C. Kenyon,.....	36,362 00		35,981 80
do 15,.....	Wm. Baldwin,.....	28,455 00		25,394 60
do 17,.....	Philo Stevens, assigned to Wm. Baldwin,	30,840 00		26,288 00
Guard lock No. 1,.....	C. N. Steves & Co.,.....	20,101 00		19,467 30
do 3,.....	C. H. Sage & Co.,.....	21,045 00		21,077 50
do 5,.....	Jas. McDonald,.....	20,026 00		17,846 00
Section No. 38,.....	R. C. Kenyon,.....	46,596 00		44,250 00
*Valve gates for 15 locks,.....	C. C. Bradley,.....	8,250 00		6,880 00
				\$451,189 20
				36,095 80
				\$487,285 00
		\$494,893 00		

Add 8 per cent for contingencies, .....

\* Awarded, but contract not executed.

### ONEIDA RIVER IMPROVEMENT.

This improvement consists in removing several bars in the Oneida river, between the foot of the lake at Brewerton, and the Oswego river at Three River point, a distance of 20 miles, on which there are one dam and two locks, one  $9.3\frac{1}{4}$ , and one of 3 feet lift, with chambers 120 by  $30\frac{1}{2}$  feet.

There are two draw-bridges on the river, one at Brewerton and one at Oak Orchard; the former is owned by an association. Docks and guides for the protection of this draw have been constructed by the bridge company, and paid for by the State.

The bridge at Oak Orchard is owned by the towns of Clay and Schroepell; these towns have been compelled to construct a draw in the bridge, the expense of which has been paid for by the State.

Four steamboats adapted to the business, have been regularly engaged the past season in towing canal boats on the river and lake. A large portion of the business of the Oswego canal, has left that canal at Three River point, and entered the Erie canal at Higginsville, passing through the Oneida river and Oneida lake, and the Oneida Lake canal.

Without pretty extensive repairs to the Oneida Lake canal and the locks thereon, the business through this channel of communication must be very soon restored to the portion of the Oswego canal from whence it came.

Contracts for improving the Oneida river have been completed and cancelled.

The amount of work done under these contracts is \$18,422.38.

### SENECA RIVER IMPROVEMENT AT BALDWINVILLE.

For information in relation to this improvement, I beg leave to refer you to the Canal Commissioners' report of the 24th of January last, page 46, and my own remarks in relation thereto contained in the State Engineers' report made at the same time.

The stone monuments required by law to be "set up" to designate the height of the dam, have been established, and a description thereof filed in the offices of the county clerk of the towns of Lysander and Van Buren.

No expenditures have been made on the improvement other than for examinations and surveys.

### ONEIDA LAKE CANAL.

This canal is 6 miles long, and extends from the Erie canal at Higginsville to Wood creek, near its confluence with Fish creek, at a point 2 miles above the head of Oneida lake.

On it are 7 lift-locks all of wood, and in a dilapidated condition.

The prism of the canal is so much contracted that it is difficult for loaded boats to pass, and unless thorough repairs are soon made to both canal and lake, the business now doing upon it must seek another channel.

### CAYUGA AND SENECA CANAL.

For a brief history of the plans for improving the navigation of the Cayuga and Seneca canal, and the re-building, and enlarging the locks upon the same, I cannot do better than refer you to a portion of the report made to me last year by the resident engineer, Mr. Wentz, which is as follows :

By a law passed in 1836, the Canal Commissioners are authorized to re-build the locks on this canal, of stone of the *width* of the enlarged locks, whenever the interests of navigation shall require.

By a subsequent law passed in 1847, the Canal Commissioners are authorized under certain conditions, to change the plan from cut stone to composite locks and construct them of the dimensions of the enlarged locks on the Erie canal.

In July, 1848, the necessary surveys and estimates were made in compliance with the act of 1847, and presented to the Canal Board. The plan and estimates having been approved, the plan

of an enlarged composite lock was adopted, and two of the locks located at Waterloo were placed under contract. These locks were finished and brought into use in the spring of 1849.

Three other locks located at Seneca Falls have since been completed and brought into use.

By the plan adopted for re-building the locks on this canal, one lock is dispensed with near Geneva, by extending the Waterloo level to the lake, and it is proposed to dispense with another, located about two miles below Waterloo, by raising the dam at Seneca Falls, or by continuing the Chamberlain dam and constructing an independent canal to Seneca Falls, as future examinations may render advisable.

Under this arrangement five locks remain yet to be rebuilt on this canal.

By an act, chap. 213, Laws of 1849, the Canal Commissioners are authorised to change the line of this canal from lock No. 9, below Seneca Falls, and cross the Seneca river with an aqueduct.

The surveys for this change were made in 1849, and an estimate of the cost of the work presented to the Canal Commissioners, who after a personal examination of the line, adopted the proposed change. During the season past, additional surveys and examinations have been made, with a view to making an entire separation from the river below lock No. 9, and continue the proposed independent line of canal upon the south side the river, instead of the north side as heretofore, thus reducing the length of the aqueduct required at the crossing of the Cayuga outlet, by passing the water of Seneca river through the old canal, and making the junction of the two streams below the proposed aqueduct. It is believed that this plan will materially lessen the difficulties arising from high water in the Cayuga lake, of which there has of late been much complaint by those living on the borders of the lake, and liable to be affected thereby. This plan also dispenses with the dam and tow-path bridge below lock No. 9.

The recent surveys and examinations demonstrate the entire feasibility of this plan, and at a cost within the estimates for the line upon the north side of the river.

By this improvement three locks are dispensed with, a difficult and expensive portion of navigation is avoided, and a continuous level formed connecting with the Seneca river above lock No. 9, and extending to Montezuma upon the same base as the enlarged Erie canal.

This improvement cannot fairly be considered as involving the expense of raising the banks of the present canal from Montezuma to East Cayuga, a distance of 7 miles, nor the consequent expense of raising and increasing the lift of the locks at the Cayuga lake, as these improvements will be necessary and grow out of the change in the level of the Erie canal at Montezuma, made by the plan adopted for its enlargement, it should therefore, only be considered as the alternate to the plan of connecting the Cayuga and Seneca canal with the enlarged Erie canal by a lock.

The old locks on this canal, and particularly those included within this proposed change of line, are in a dilapidated condition. They are constructed entirely of timber, and have been in use so long, and are in such a state of decay as to render it impossible to repair them so as to make them safe for the purposes of navigation without an expenditure almost equivalent to reconstructing them of timber.

In their present state they are liable to give way at the most important season of navigation, and create a suspension which would be disastrous.

There is a pressing necessity for calling attention to the condition of four locks below Seneca Falls, and the lock at the Cayuga side cut. Whether the improvements recommended are adopted or not, lock No. 9 must be rebuilt, and also the one at the Cayuga side cut; and measures should be taken to complete the work before the opening of navigation in the spring of 1853.

Unless early action is taken in regard to all the old structures on the Cayuga and Seneca canal, below Seneca Falls, it is more than probable that navigation will be suspended on this portion of the canal within two years.

### CROOKED LAKE CANAL.

Since the date of my last report, the piers on Seneca lake, designed to secure the entrance into the lake, represented as then in progress have been completed; the harbor for boats rendered convenient of access, and secure. With the exception of rebuilding the dam at Penn Yan, and constructing some additional protection at the mouth of the canal on the Crooked lake, the navigation may be maintained in a good condition with an ordinary expenditure.

### CHEMUNG CANAL.

The locks upon this canal have been already twice constructed of timber, upon plans very different in their general details, but both defective. As a measure of economy it is presumed the experiment of rebuilding them again entirely of timber, will not be repeated. Locks upon the composite plan, with tight walls, may be constructed upon this canal at a cost per lock but little above the expense incurred in rebuilding them of timber, upon the plan now in use.

I would therefore suggest the propriety of making some provision authorizing the Canal Commissioners to rebuild a limited number in each year, selecting those in the most advanced stages of decay, upon the composite plan, so that the process of rebuilding shall keep pace with the decay of the present structures.

This would render the rebuilding of a large number in one season unnecessary, and would materially lessen the cost of the work.

Fifty thousand dollars, I think, can be advantageously expended annually in rebuilding these locks, and no less a sum will combine economy with the wants of navigation.

### CHENANGO CANAL.

The process of repairing the locks upon this canal by removing the lining and decayed portions of the chamber posts, has been continued, but only when the advanced stage of decay has rendered it absolutely necessary. This, with the new lock-gates,

the removal of the bulk-heads and sluices around the locks, together with the superstructure of bridges, constitutes the main features in the expenditures for repairs other than those of an ordinary nature.

Many of the locks remain yet to be repaired, and the renewal of the bridge superstructures must be continued as fast as the indications of decay shall require; this, from the great number of bridges, must form no inconsiderable item in the expenditure for repairs for some years to come.

### ENGINEER DEPARTMENT.

I submit tabular statement No. 1 and 2, showing the number and compensation of engineers employed during the year 1851, on the two sub-divisions respectively, with all other expenditures in the engineer department. By reference to the abstract and summary, it will be seen that the expenditures have been as follows :

For engineering service proper, .....	\$18,076 67
Overseers and superintending mechanical structures, .....	1,333 75
Labor, sinking test pits, .....	237 93
Stationery and printing, .....	427 69
Office rent, fuel, lights and cleaning offices, ..	442 33
Postage, telegraph and express, .....	74 92
Affidavits, .....	36 91
Travelling expenses of resident engineers, ....	644 46
Miscellaneous, .....	168 18
Extra services canvassing propositions, allowed by Canal Board, .....	1,163 74
Salary of division engineer, .....	\$1,700 00
Travelling expenses of do .....	451 21
	<hr/> 2,151 21
Total for middle division in 1851, ....	\$24,757 79
do do 1850, ....	24,796 35
Difference in favor of 1851, .....	<hr/> 38 56 <hr/>

In order to show in as condensed a form as possible the amount of each person's proposition for the several kinds of work recently contracted for, I have appended in tabular form an abstract of the canvass sheets now on file in the State Engineer's office, together with the estimated quantities exhibited at the letting, and used in determining the amount of each person's bid.

Respectfully submitted.

JOHN T. CLARK,  
*Division Engineer.*

*Albany, December 31, 1851.*



(No. 1.)  
STATEMENT

*Showing the number and compensation of engineers employed during the year 1851, on the Eastern sub-division of the Middle division of the New-York State canals.*

JOHN T. CLARK, Division Engineer, acting as Resident to the 18th October, 1851.

L. L. NICHOLS, Resident Engineer from the 18th October to the 31st December, inclusive.

NAMES.	Nature of service rendered.	Time employed.	Rate of compensation per day.	Amount.
O. C. Hartwell,.....	First assistant engineer,.....	313	\$3 50	\$1,095 50
M. C. Fremyre, .....	First do .....	69	3 50	241 50
John G. Sipple,.....	First do .....	34	3 50	119 00
Daniel R. Hartwell,.....	Second do .....	313	2 50	782 50
Gerrit S. Backus,.....	Second do .....	313	2 50	782 50
Daniel Richmond, .....	Second do .....	125	2 50	312 50
G. S. Johnson, .....	Assistant on Erieville reservoir, .....	195	1 75	341 25
W. S. Nearing, .....	Surveyor, .....	77	1 75	
do .....	do .....	157	2 00	646 25
do .....	Second assistant, .....	79	2 50	
O. H. Bogardus,.....	Leveller, .....	77	1 50	
do .....	do .....	157	2 00	627 00
do .....	do .....	79	2 50	
James Burke, .....	Second assistant,.....	77	1 50	587 50
do .....	Draughtsman,.....	236	2 00	
William S. Segar,.....	do .....	45	1 50	67 50

E. B. Van Dusen, .....	Rodman, .....	104	1 25	180 00
S. M. Carpenter, .....	do .....	183	1 25	228 75
J. L. Rhoades, .....	do .....	132	1 25	165 00
F. H. E. Brown, .....	Tape and axeman, .....	104	1 00	104 00
do .....	Rodman, .....	63	1 25	78 75
Montgomery Pelton, .....	Chainman, .....	51	1 00	51 00
William Carpenter, .....	do .....	87	1 00	87 00
Edward W. Carpenter, .....	do .....	46	1 00	46 00
E. P. Clark, .....	Tapeman, .....	40	1 00	40 00
Nathaniel Ring, .....	Chainman, .....	38	1 00	38 00
do .....	Labor, sinking shaft, .....	30	1 00	30 00
Alfred Strong, .....	Axeman, .....	104	1 00	104 00
Amos Kinne, .....	do .....	183	1 25	228 75
De Witt Cunningham, .....	do .....	40	1 00	40 00
James O'Neal, .....	do .....	42	1 00	42 00
Malachi Teban, .....	Inspector, .....	313	1 50	469 50
William Crossett, .....	do .....	155	2 00	310 00
do .....	do .....	158	1 50	237 00
L. L. Nichols, .....	Resident engineer, .....	74	\$1,500 per yr.	304 11
do .....	Traveling fees, .....	....	.....	39 06
William L. Crossett, .....	Labor, sinking test pits, .....	20	\$1 per day,	20 00
Total, .....	.....	.....	.....	\$8,395 92

## INCIDENTAL EXPENSES.

Stationery, .....	\$198 06
Fuel,.....	76 73
Lights, .....	28 44
Office rent,.....	17 72
Postage, telegraph and express charges, .....	44 49
Affidavits,.....	17 01
Cleaning office,.....	26 00
Miscellaneous expenses,.....	156 74
Extra services and traveling expenses paid sundry persons engaged in canvassing propositions under a resolution of the Canal Board, passed Nov. 28th, 1851,	370 16
Total,.....	<u>\$935 35</u>

( No. 1. )

## STATEMENT

*Showing the number and compensation of engineers employed during the year 1851, on the Oswego canal, embraced in the middle division of the New-York State canals.*

JOHN T. CLARK, Division Engineer, acting as Resident to the 1st of October, 1851.

MORRIS S. KIMBALL, Resident Engineer from the 1st of Oct. to the 31st of Dec., inclusive.

NAME.	Nature of service rendered.	Time employed.	Rate of compensation per day.	Amount.
Morris S. Kimball,.....	1st asst. engineer, .....	234	\$3 50	\$819 00
W. W. Jerome,.....	Rodman and inspector,.....	234	1 50	351 00
do .....	Leveler, .....	79	2 00	158 00
A. C. Scott,.....	Rodman and clerk, .....	234	1 50	351 00
do .....	Draughtsman,.....	79	2 00	158 00
I. M. Rich,.....	do .....	39	2 00	78 00
Thomas Jekylle, .....	do .....	85	2 00	170 00
Bruce Kimball,.....	Rodman, .....	111	1 25	138 75
N. W. Benedict, .....	Clerk, .....	4	1 50	6 00
C. H. Lusk,.....	do .....	95	1 25	118 75
W. E. Sparrow, .....	Axeman, .....	48	1 00	48 00
Morris S. Kimball,.....	Resident engineer,.....	3 months	\$1,500 pr. yr.	375 00
do .....	Travel fees,.....	.....	.....	79 80
Total,.....	.....	.....	.....	\$2,851 30

**INCIDENTAL EXPENSES.**

Stationery, .....	\$95 04
Fuel and lights, ... ..	6 25
Office rent, .....	52 00
Postage and telegraph, .....	11 81
Affidavits to monthly estimates, ... ..	8 52
Timber for stakes, .....	1 25
Extra services and travelling expenses paid, sundry persons engaged in canvassing propositions under a resolution of the Canal Board, passed Nov. 28th, 1851, .....	\$426 75
Total, .....	<u>\$601 62</u>

**SENECA RIVER IMPROVEMENT AT BALDWINSVILLE.***Incidental Expenses.*

Transportation and expenses of procuring stone monuments to designate the height of dam, .....	\$3 19
Recording description of monuments in the towns of Van Buren and Lysander, .....	4 00
Expenses of Bogardus attending Appraisers, .....	1 50
	<u>\$8 69</u>

## ABSTRACT

*Of expenditures of the Engineer Department on the eastern sub-division of the middle division of the State canals, from January 1st 1851, to January 1st, 1852.*

WHERE EXPENDED.		FOR WHAT PURPOSE THE EXPENDITURES WERE MADE.										Total.
Engineers' serv- ices proper.	Overseer and su- perintendent of mechanical work.	Labor of sinking test pile.	Stationery and printing.	Office rent, fuel, lights, & clean- ing office.	Postage, tele- graph, & express charges.	Affidavits.	Travelling expen- ses.	Miscellaneous ex- penses.	Extra services and expenses can- vassing reports authorized by Canal Board.			
\$7,230 36	\$1,016 50	\$50 00	\$198 05	\$148 89	\$44 49	\$17 01	\$39 06	\$156 74	\$370 16	\$9,331 27		
2,771 50	.....	.....	95 04	58 25	11 81	8 52	79 80	1 25	426 75	3,452 92		
.....	.....	.....	.....	.....	.....	.....	.....	8 69	.....	8 69		
\$10,001 81	\$1,016 50	\$50 00	\$293 10	\$207 14	\$56 30	\$25 53	\$118 86	\$166 68	\$796 91	\$12,792 88		
Erie canal enlargement, .....												
Oswego canal, .....												
Improvement of Seneca river, at Baldwinsville, .....												

## (No. 2.)

**STATEMENT.**—Showing the number and compensation of engineers employed during the year 1861, on the western sub-division of the middle division of the New-York State canals.

CHARLES W. WENTZ, Resident Engineer.

NAMES.	Nature of services rendered.	Time em- ployed.	Rate of compen- sation per day.	Amounts.
Theodore D. Judah,	First assistant engineer,	28	\$3 50	\$ 98 00
Van R. Sweet,	do	99	3 50	346 50
James Barnes,	First do	34	3 50	119 00
John L. Stephenson,	Second do	175	2 50	437 50
"	First do	138	3 50	483 00
Nathan Coryell,	Second do	313	2 50	782 50
Samuel T. Wright,	Second do	129	2 50	322 50
Luther Eno,	Second do	35	2 50	87 50
W. H. H. Gere,	Second do	158	2 50	395 00
"	Leveler,	78	2 00	156 00
"	Rodman,	77	1 75	134 75
Charles Earl,	Assistant and clerk,	59	2 00	118 00
Wm. Burke,	Draughtsman,	313	2 00	626 00
James McClure,	do	5	2 00	10 00
Robert Burns,	Clerk,	75	1 50	112 50
Wm. A. Van Buskirk,	Rodman,	27	1 75	47 25
W. P. Bump,	do	21	1 25	26 25
Robert Hyslop,	Rodman,	211	1 25	263 75
"	do	79	1 50	118 50

S. D. Judah, .....	Rodman, .....	27	1 00	27 00
Wm. Dumont, .....	do .....	11	1 25	13 75
Thomas M. Sherman, .....	do .....	35	1 50	52 50
Daniel H. Thyme, .....	do .....	158	1 25	197 50
" .....	Axeman, .....	144	1 12 $\frac{1}{2}$	162 00
John Barry, .....	do .....	4	1 12 $\frac{1}{2}$	4 50
Joseph Eldred, .....	do .....	57	1 12 $\frac{1}{2}$	64 12
" .....	do .....	122	1 25	152 50
Abm. Reynolds, .....	do .....	10 $\frac{1}{2}$	1 00	10 50
Henry Paine, .....	do .....	4	1 00	4 00
Wm. Whitcomb, .....	do .....	7 $\frac{1}{2}$	1 25	9 37
John Crawford, .....	do .....	15	1 00	15 00
Robert Bunage, .....	do .....	18	1 00	18 00
Henry Crosby, .....	do .....	18 $\frac{1}{2}$	1 25	23 12
Edward Cody, .....	do .....	18 $\frac{1}{2}$	1 25	23 13
David A. Allen, .....	Chairman, .....	28	1 12 $\frac{1}{2}$	31 50
Wm. F. Knapp, .....	Tapeman, .....	2	1 12 $\frac{1}{2}$	2 25
Peter Crawley, .....	do .....	5 $\frac{1}{2}$	1 12 $\frac{1}{2}$	6 19
John Donley, .....	do .....	5 $\frac{1}{2}$	1 12 $\frac{1}{2}$	6 19
George W. Robbins, .....	Flagman, .....	17 $\frac{1}{2}$	1 12 $\frac{1}{2}$	19 69
Charles W. Wentz, .....	Resident engineer, .....			1,130 08
" .....	Travel fees, .....			403 20
George Robbins, .....	Inspector, .....			317 25
Common labor, .....	Digging test pits, .....			187 93
Total, .....	.....			\$7,565 77



## INCIDENTAL EXPENSES.

Stationery and printing, .....	\$134 59
Office rent, fuel and lights, .....	178 06
Postage and express, .....	18 62
Affidavits, .....	11 38
Extra services and traveling expenses paid sundry persons engaged in canvassing propositions, under a resolution of the Canal Board, passed Nov. 28th, 1851,	366 83
Total, .....	<u>\$709 48</u>

STATEMENT No. 2, A.—(CONTINUED.)  
CAYUGA AND SENECA.

NAMES.	Nature of service rendered.	Time employed.	Rate of compensation per day.	Amounts.
James Barnes,.....	Assistant engineer,.....	53	\$3 50	\$185 50
Samuel T. Wright, .....	2nd do .....	184	2 50	460 00
Luther Eno,.....	do and surveyor,	49	2 50	122 50
Robert Hyslop,.....	Rodman, .....	23	1 25	28 75
Thomas M. Sherman, .....	do .....	49	1 50	73 50
Wm. G. Van Clief,.....	do .....	6	1 50	9 00
John Murphy, .....	Axeman, .....	5	1 00	5 00
do .....	do .....	2	1 25	2 50
Thomas Killiker, .....	do .....	49	1 25	61 25
Roswell R. Marshall,.....	do .....	6	1 25	7 50
Henry Crosby, .....	do .....	6	1 25	7 50
Christopher Thompson,.....	Chainman,.....	7	1 12½	7 87
Jas. McGraw, .....	do .....	7	1 12½	7 88
Richard Curran,.....	do .....	4	1 12½	4 50
Alex. McDonald,.....	do .....	3	1 25	3 75
Anthony Cruel, Jr.,.....	do .....	2	1 25	2 50
Edward A. Fake,.....	do .....	1	1 25	1 25
Daniel J. Fulkerson,.....	do .....	3	1 25	2 50
Wm. H. Ellis,.....	Tapeman, .....	5	1 25	6 25
Thomas Crosby, .....	do .....	6	1 25	7 50

## STATEMENT No. 2, A.—(CONTINUED.)

NAMES.	Nature of service rendered.	Time employed.	Rate of compensation per day.	Amount.
Charles W. Wentz, .....	Resident engineer, .....	.....	per year,	215 57
do .....	Travel fees, .....	.....	.....	47 76
	Miscellaneous expenses, .....	.....	.....	1 50
				\$1,271 83

## STATEMENT No. 2, A.—(CONTINUED.)

## CROOKED LAKE.

Charles W. Wentz, Resident engineer, .....	\$14 24
do Travel fees, .....	9 36
	<hr/>
	\$23 60
	<hr/>

## CHEMUNG.

Charles W. Wentz, Resident engineer, .....	\$48 44
do Travel fees, .....	20 76
Incidental expenses—Office rent, fuel, &c., .....	57 13
	<hr/>
	\$126 33
	<hr/>

## CHENANGO.

Charles W. Wentz, Resident engineer, .....	\$72 17
do Travel fees, .....	44 52
	<hr/>
	\$116 69
	<hr/>

## ABSTRACT

*Of expenditures of the Engineer Department on the western sub-division of the middle division of the State canals, from January 1st, 1851, to January 1st, 1852.*

WHERE EXPENDED.	FOR WHAT PURPOSE THE EXPENDITURES WERE MADE.										Total.
	Engineering services proper.	Overseers and superint'ds of mechn'l work.	Labor sinking test pits.	Stationery and printing.	Office rent, fuel, lights, and cleaning office.	Postage, tele-graph and ex-press charges.	Attorneys.	Traveling ex-penses.	Miscellaneous expenses.	Extra services & expenses can-vas'g propo-sals by auth'y of Civ Board.	
Erie canal enlargement, . . .	\$6,657 39	\$317 25	\$187 93	\$134 59	\$173 06	\$18 62	\$11 38	\$403 20	.....	\$366 83	\$8,275 25
Cayuga and Seneca, . . . . .	1,222 57	.....	.....	.....	.....	.....	.....	47 76	.....	.....	1,271 83
Crooked Lake, . . . . .	14 24	.....	.....	.....	.....	.....	.....	9 36	\$1 50	.....	23 60
Chemung, . . . . .	48 44	.....	.....	.....	57 13	.....	.....	20 76	.....	.....	126 33
Chenango, . . . . .	72 17	.....	.....	.....	.....	.....	.....	44 52	.....	.....	116 69
	\$9,014 81	\$317 25	\$187 93	\$134 59	\$235 19	\$18 62	\$11 38	\$525 60	\$1 50	\$366 83	\$9,813 70

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**R E P O R T**  
**OF**  
**JEROME B. STILLSON,**  
**DIVISION ENGINEER UPON THE WESTERN DIVISION**  
**OF THE NEW-YORK STATE CANALS.**  
**JANUARY, 1852.**

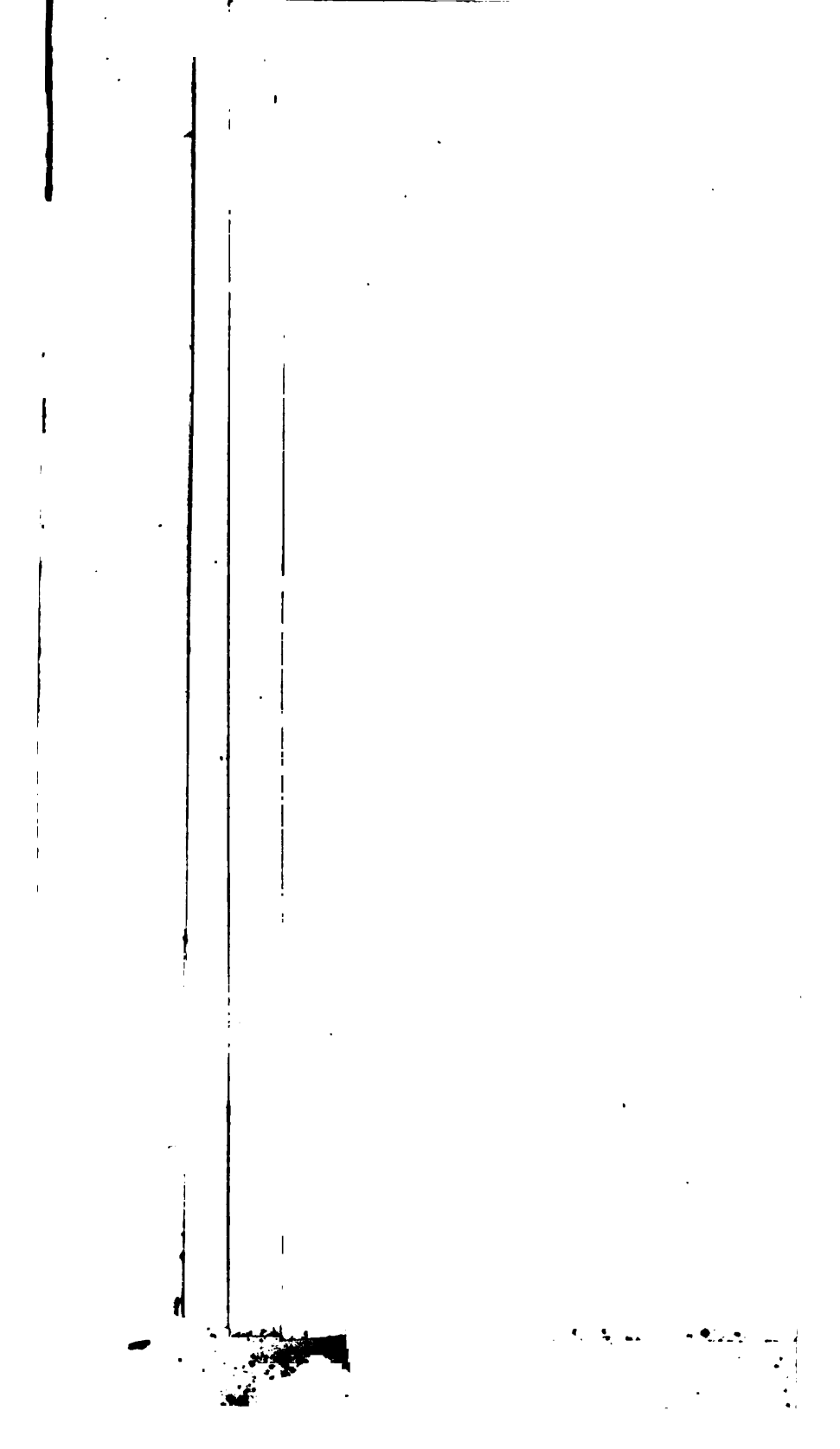
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## REPORT.

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To Hon. H. C. SKYMOUR, *State Engineer and Surveyor* :

Sir,—In compliance with “the regulations,” I have the honor to submit the following report, showing the number and compensation of the engineers employed during the preceding year, the present condition of the western division of the State canals, and the estimated cost of completing the same.

The western division comprizes as follows, viz: The Erie canal from the east line of Wayne county to Buffalo, including the Main and Hamburg street canal, slips and basins at that place, and when enlarged, will be, (miles in length,)..... 144  
 The Genesee Valley canal, finished and unfinished with side cut, is ..... 118  
 Total number of miles,..... 162

### *Enlargement of the Erie canal.*

All the work required to complete the enlargement of the Erie canal is now under contract.

Work to be done on old contracts, Jan. 1st, 1852,... \$676,570 99  
 Work contracted for Dec. 29th, 1851, as per estimates made out for the contracting board,..... 4,966,574 18

### *Genesee Valley canal.*

Work remaining to be done on old contracts January 1st, 1852,..... 323,797 78  
 Work contracted Dec. 29th, 1851,..... 149,570 00  
 Add work not under contract, (engineers' estimate,) 44,000 00  
 Total cost to complete western division,..... \$6,160,512 95

The following tabular statement, explanations and suggestions, it is believed, will be found to embrace the subjects and supply the information required as per act, chap. 377, Laws of 1850.

*Estimates, cost, increase, &c.*

The estimated cost of completing the whole western division as shown in the State Engineer and Surveyor's report to the Legislature, February 7th, 1851, amounts to the sum of \$6,217,052 67  
 The estimated cost of completing the same as per  
 preset report is,..... \$6,160,512 95  
 Add payment made on work done  
 since Jan. 1st, 1851,..... 521,361 55  
 ----- \$6,681,874 50

Excess of present over last year's estimate, \$464,821 83

*Cost increased by Canal Board on work adopted and changes made in 1851.*

By adopting independent line east of  
 Rochester,..... \$427,603 05  
 By adopting indep't line at Holley,.. 12,000 00  
 By adopting iron bridges and stone  
 abutments, (1st sub-division,) .... 209,500 00  
 By adopting iron bridges and stone  
 abutments and change of line, (2d  
 sub-division,) ..... 39,992 00  
 By removal of feeder lock at Roches-  
 ter,..... 11,197 00  
 By change of plan for Erie breakwa-  
 ter,..... 30,200 90  
 By change of excavating price as per  
 Act of Legislature on contracts on  
 sections 11, 12, 13 and 14 Mountain  
 ridge,..... 77,248 50  
 By change of plans, allowances, &c.,  
 G. V. canal,.... 27,000 00  
 ----- \$834,741 45

*Engineering.*

The expenditures of the same on the western division, independent of labor required on contracts in progress during the past year, has been necessarily great.

One hundred and fifty miles of canal have been minutely surveyed and located, and maps, profiles, admeasurements, specifications, estimates and bills of material prepared in full detail for the entire work.

Extensive preliminary examinations and estimates have been required at several places on the line preparatory to a final location of the same.

The "law and regulations" defining the duties of the Engineer Department, require that two sets of maps be made, viz: "maps of location" and "maps of lettings," giving, in minute and accurate detail, the exact boundaries and areas of appropriations for the canal, the lines of lots, names of owners, with the topography of the country, defining the streams and mechanical structures, the location of public and private roads, with buildings &c., coming within the enlargement boundaries. The same minute detail is also required for the places, profiles, estimates, bills of material, &c.,

Besides the above, triplicate copies of all the maps, plans and estimates have been made, one for State Engineer and Surveyor, one for the division engineer and one for the resident engineer's offices. A large proportion of this work has been done since the close of the extra session of the Legislature, and under a pressure of demand so great as to render an economical use of labor at all times, impossible.

In addition to the above, the Canal Board required the labor of the division during and after the letting to be transferred to the city of Albany, which has added several thousand dollars extra to the expenditures of the year. The office, stationery and travelling expenses, have been for the above reasons correspondingly increased.

# TABULAR STATEMENT

*Of engineering expenses on the 1st sub-division of the Western division of the State canals for the year 1851.*

DANIEL MARSH, RESIDENT ENGINEER.

Names.	Nature of duties.	Days employed.	Compensation allowed. Per year. Per day.	Amounts.	Totals.
Daniel Marsh.....	Resident engineer, .....	...	\$1,500 00	\$1,500 00	
do.....	Travelling .....	...	.....	283 26	
do.....	Extra allowance by Canal Board,....	40	2 00	80 00	\$1,863 26
Richard Vernam....	1st assistant engineer,.....	326	3 50	\$1,141 00	
do.....	Extra allowance, by Canal Board,....	32	2 00	64 00	
do.....	Travelling,.....	...	.....	40 44	1,245 44
Benjamin B. Hart..	1st assistant engineer,.....	113	3 50	395 50	
do.....	Extra allowance,.....	43	2 00	86 00	
do.....	Travelling, by Canal Board,.....	...	.....	10 20	491 70
E. C. Clarke,.....	1st assistant engineer,.....	319	3 50	1,116 50	
do.....	Extra allowance, by Canal Board,....	37	2 00	74 00	
do.....	Travelling, .....	...	.....	108 23	1,298 73
Ely S. Parker, .....	1st and 2d assistant engineer,.....	323	\$2 50 to 3 50	896 50	
do.....	Extra allowance, by Canal Board,....	43	2 00	86 00	
do.....	Travelling,.....	...	.....	32 10	1,014 60

R. H. Colburn,.....	2d assistant engineer,.....	319	2 50	797 50	797 50
C. Q. Newcombe,...	2nd ass't engineer,.....	314	2 50	785 00	
do	Extra allowance,.....	30	2 00	60 00	
do	Travelling, by Canal Board,.....			10 82	855 82
Henry F. Hart, ....	2nd ass't engineer,.....	320	2 50	\$800 00	
do	Extra allowance,.....	41	2 00	82 00	
dy	Travelling, by Canal Board,.....			10 20	
Hathaway Hurd,....	2nd ass't engineer,.....	261	2 50	652 50	892 20
C. G. Voorhees,.....	do	198	2 50	495 00	652 50
do	Extra allowance, by Canal Board, ...	37	2 00	74 00	
do	Travelling,.....			32 77	
D. H. Ainsworth,...	2nd ass't engineer and levellet,.....	291	2 to 2 50	653 50	601 77
James A. Case,.....	do in office,.....	98	2 50	245 00	653 50
do	Extra allowance,.....	40	2 00	80 00	
do	Travelling, by Canal Board,.....			10 20	
Edward Everett,....	2nd ass't engineer,.....	44	2 50	110 00	395 20
do	Extra allowance, by Canal Board,....	41	2 00	82 00	
do	Travelling, do do			7 10	199 10
J. N. Green,.....	2d assistant engineer,.....	26	2 50	65 00	
do	Extra allowance,.....	26	2 00	52 00	
do	Travelling, by Canal Board,.....			10 20	197 20



# STATEMENT—(CONTINUED.)

Names.	Nature of duties.	Days employed.	Compensation allowed. Per day.	Amounts.	Totals.
W. H. C. Abell, .....	2d assistant engineer, .....	121	2 50	302 50	302 50
D. C. Shephard, ....	Draftsman, .....	166	2 50	415 00	
do .....	Extra allowance, } .....	38	2 00	66 00	
do .....	Travelling, } by Canal Board, ..			10 20	
A. M. Leach, .....	Draftsman, .....	319	2 50	797 50	491 20
do .....	Extra allowance, } .....	41	2 00	82 00	
do .....	Travelling, } by Canal Board,			10 82	
Gustus Berger, .....	Draftsman, .....	32	2 50	80 00	890 82
Fredk. Buckeridge, ..	do .....	81	\$2 to 2 25	172 75	80 00
Chas. Pirmey, .....	do .....	140	2 25	315 00	172 75
John Flynn, .....	do .....	129	2 50	322 50	315 00
Wm. Flynn, .....	do .....	97	\$2 to 2 25	214 50	322 50
Geo. Arnoldt, .....	do and leveller, .....	103	\$1.50 to 2	185 00	214 50
A. W. Riley, .....	Draftsman, .....	98	1 75	171 50	185 00
do .....	Extra allowance, by Canal Board, ....	34	2 00	68 00	
do .....	Traveling, do .....	...	....	10 20	
John Dumble, .....	Draftsman, .....	38	2 00	76 00	249 70
H. M. Ellsworth, ...	Assistant in office, and rodman, .....	314	1,37 1/2 to 1 75	492 50	
do .....	Extra allowance by Canal Board, .....	36	2 00	72 00	
do .....	Traveling, do .....	...	....	10 20	574 70

Andrew Soverhill, ..	Assistant in office, .....	3	1 50	4 50	4 50
Rudd, .....	do .....	4	1 50	6 00	6 00
Hugh Jameson, Jr. . .	do .....	4	1 50	6 00	6 00
Melvorn Goodrich, ..	do .....	3	1 50	4 50	4 50
Hubbell Watrous, ..	do .....	26	1 50 & 1 25	33 50	33 50
A. W. Dains, .....	do .....	7	2 00	14 00	14 00
John Atwood, .....	do .....	6	2 00	12 00	12 00
Benj. Burton, .....	do .....	13	3 75	48 75	48 75
John Wigglesworth, ..	do .....	9	3 50	31 50	31 50
M. Jameson, .....	do .....	4	1 50	6 00	6 00
Smith Goodrich, ....	do .....	4	1 50	6 00	6 00
T. H. Garitt, .....	Assistant in office, .....	133	1 50 to 1 75	\$220 00	
do .....	Extra allowance by Canal Board, .....	35	2 00	70 00	
do .....	Traveling, do .....	...	....	10 34	
				<hr/>	300 34
J. C. Schermerhorn, ..	Assistant in office, .....	130	1 50 to 1 75	215 25	
do .....	Extra allowance by Canal Board, .....	40	2 00	80 00	
do .....	Traveling, do .....	...	....	10 20	
				<hr/>	305 45
A. S. Harris, .....	Assistant in office, .....	68	2 00	136 00	
do .....	Extra allowance, by Canal Board, .....	35	2 00	70 00	
do .....	Travelling, do .....	...	....	10 20	
				<hr/>	216 20
L. R. P. Stockton, ..	Assistant in office, .....	137	1 75 to 2 00	261 00	
do ..	Extra allowance by Canal Board, .....	41	2 00	82 00	
do ..	Traveling, do .....	...	....	10 82	
				<hr/>	353 82

# STATEMENT—(CONTINUED.)

Names.	Nature of duties.	Days employed.	Compensation allowed. Per day.	Amounts.	Totals.
Byron Holley, .....	Assistant in office, .....	134	1 50 to 1 75	221 50	
do .....	Extra allowance by Canal Board, .....	38	2 00	76 00	
do .....	Traveling do .....	...	....	17 39	314 89
L. D. Ireland, .....	Assistant in office, .....	110	1 25 to 1 75	176 50	
do .....	Extra allowance by Canal Board, .....	33	2 00	66 00	
do .....	Traveling, do .....	...	....	10 09	252 59
Wm. Bloss, .....	Assistant in office, .....	96	1 50 to 2 00	170 00	
John M. Carey, .....	Ass't in office and chainman, .....	132	1 25 & 1 50	185 75	
do .....	Extra allowance, .....	37	2 00	74 00	
do .....	Travelling, by Canal Board, .....			11 59	271 34
William S. Burns, ..	Assistant in office, .....	148	1 50 & 1 75	242 25	
do .....	Extra allowances, .....	40	2 00	80 00	
do .....	Travelling, by Canal Board, .....			10 55	
N. H. Parker, .....	Ass't in office and ass't leveller, .....	81	1 75 & 2 00	149 00	
J. W. Adams, .....	Ass't in office and rodman, .....	155	1 50 & 2 00	273 50	
do .....	Extra allowance, .....	40	2 00	80 00	
do .....	Travelling, by Canal Board, .....			10 20	
Saml. P. Burrill, ...	Assistant in office, .....	91	1 50	136 50	
H. A. Blyth, .....	Leveller, .....	250	1 75 & 2 00	497 75	
do .....	Extra allowance, .....	40	2 00	80 00	
do .....	Travelling, by Canal Board, .....			10 20	587 95

Albert Ball, .....	121	1 75	211 75	
do	98	1 50	147 00	
H. C. Ruggles, .....	262	1 75 to 2	517 50	358 75
Labern H. Spencer, ...	315	2 00	630 00	517 50
B. M. Hanks, .....	34	1 75	59 50	630 00
D. F. Curtis, .....	28	2 50	70 00	59 50
Jas. McCormick, ....	20	2 00	40 00	70 00
E. P. Taft, .....	14	1 25	17 50	40 00
Chas. Gaul, .....	83	1 25	103 75	17 50
S. D. Newcombe, ....	185½	\$1 25 & 1 50	262 88	103 75
Thos. F. Goodrich, ..	71	1 25 & 1 50	100 00	262 88
G. W. Samson, .....	40	1 25	50 00	100 00
Jno. H. Follett, .....	123	\$1 25 & 1 50	173 50	50 00
do	12	2 00	24 00	
Extra allowance, } by Canal Board,			11 84	
Travelling, }				
Rodman and chairman, .....	143	\$1 25 & 1 50	191 75	209 34
Rodman, .....	29	1 25	36 25	191 75
do	2	1 25	2 50	36 25
Henry Jones, .....	5	1 50	7 50	2 50
Jas. Campbell, .....	2	1 25	2 50	7 50
H. F. Tower, .....	2½	1 25	3 13	2 50
Jas. Van Derhoff, ....	4	1 25	63	3 13
S. G. Mirick, .....	3½	1 25	4 37	63
Jno. Wilmyre, .....	3	1 25	3 75	4 37
Tapeman, .....	16	1 25	20 00	3 75
do				20 00
Elthu Hinman, .....				
Jas. Harris, .....				

## TALULAR STATEMENT—(CONTINUED.)

Names.	Nature of duties.	Days employed.	Compensation allowed. Per day.	Amounts.	Totals.
H. J. Rogers, .....	Tapeman, .....	36	1 25	45 00	45 00
J. P. Drake, .....	do .....	60	1 25	75 00	75 00
H. F. Shepard, .....	do .....	27	1 25	33 75	33 75
T. E. Ellsworth, .....	do .....	15	1 25	18 75	18 75
N. Ruggles, .....	do .....	....	....	....	27 50
Jno. E. Ryan, .....	Chairman, .....	85	1 25	106 25	106 25
W. H. Maynard, .....	do .....	5	1 25	6 25	6 25
W. P. Nottingham, ..	do .....	39½	1 25	49 38	49 38
C. F. Perrin, .....	do .....	19	1 25 & 1 50	25 50	25 50
S. B. Wilmarth, ....	do .....	100	1 25	125 00	125 00
Chas. Van Gorder, ...	do .....	62	1 25	77 50	77 50
P. Babcock, .....	do .....	6	1 25	7 50	7 50
J. C. Carey, .....	do .....	10	1 50	15 00	15 00
Carlton Lakey, .....	do .....	2	1 25	2 50	2 50
W. W. Miller, .....	do .....	1	1 25	1 25	1 25
Peter Sherman, .....	do .....	1	1 50	1 50	1 50
Jno. Sherman, .....	do .....	1	1 50	1 50	1 50
Wm. Nichols, .....	Axeman, .....	3	1 to 1 50	4 00	4 00
Jno. Snedaker, .....	do .....	44½	1 25	55 63	55 63
Jno. Strogan, .....	do .....	14	1 25	17 50	17 50
Chas. Berry, .....	do .....	35	1 25	43 75	43 75
James Morana, .....	Axeman, .....	2	1 25	2 50	2 50
S. D. Kimball, .....	do .....	98½	1 00 to 1 25	122 50	122 50
John Sampson, .....	do .....	31	1 25	38 75	38 75

F. Brockway,.....	59	1 25	73 75	73 75
Thomas McCarty,...	11	1 25	13 75	13 75
William Standish,...	4	1 25	5 00	5 00
Michael Russell,...	4	1 25	5 00	5 00
James J. Smith,.....	1	1 25	1 25	1 25
Marcus Kimball,....	40½	1 25	50 63	50 63
William Ralph,.....	4	1 25	5 00	5 00
Nelson Osborne,....	6½	1 25	8 13	8 13
Ira Palmeter,.....	20	1 25	25 00	25 00
J. Burnet,.....	2½	1 25	3 13	3 13
James Sampson,....	4	1 25	5 00	5 00
Darius Huff,.....	3	1 00	3 00	3 00
William Hickey,....	15½	1 00	15 88	15 88
H. Miles,.....	5	1 12½	5 62	5 62
Andrus Reinhart,...	4	1 00	4 00	4 00
Thomas Gohen,.....	3	1 00	3 00	3 00
John Snell,.....	1½	1 25	1 63	1 63
L. D. Avery,.....	3	1 25	3 75	3 75
Incidental labor,.....			1,205 26	1,205 26
Office rent,.....			111 57	111 57
Stationery,.....			881 34	881 34
Miscellaneous,.....			860 45	860 45

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\$25,716 02

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## TABELAR STATEMENT

*Of Engineering expenses for the year 1851, on the Western division of the New-York State canals.*

## JOHN LATHROP, RESIDENT, 2D SUB-DIVISION.

Names.	Kind of service.	Time employed. Year.	Rates of compensation.	Travel.	Amounts.
John Lathrop, .....	Resident engineer, .....	1	\$1,500 00	\$566 78	\$1,500 00
do .....	(Travel,) .....				566 78
Edw. Colman, .....	2d assistant, .....	Days. 319	2 50	....	797 50
do .....	(Travel,) .....	....	....	50 20	50 20
Stephen F. Gooding, ..	do .....	262	2 50	....	655 00
do .....	(Travel,) .....	....	....	20 40	20 40
Henry Pomeroy, ....	do .....	167	2 50	....	417 50
do .....	(Travel,) .....	....	....	14 98	14 98
Theo. Williams, ....	Assistant, .....	118	3 50	....	413 00
do .....	(Travel,) .....	....	....	5 25	5 25
Stationery, .....	.....	....	....	....	370 90
Fuel, .....	.....	....	....	....	47 75
Light, .....	.....	....	....	....	39 02
Office rent, .....	.....	....	....	....	229 42
Postage & telegraph, ..	.....	....	....	....	86 16
Henry A. Blythe, ...	Leveller, .....	38	1 75	....	66 50
S. P. Hamilton, ....	do .....	130	1 75	....	227 50
G. C. Hamilton, ....	do .....	97	2 00	....	194 00
do .....	(Travel,) .....	....	....	5 25	5 25
John Dougherty, ....	do .....	39	1 75	....	68 25

John Dougherty,....	Leveller,.....	79	2 00	....	158 00
do .....	(Travel,) .....	....	....	9 35	9 35
Stephen G. Phillips, .	do .....	82	1 37½	....	133 25
Stephen A. Charles, .	do .....	79	1 75	....	138 25
do .....	do .....	....	....	3 72	3 72
Jay Johnson, Draughtsman,	do .....	155	1 75	....	271 25
do .....	do .....	79	2 00	....	158 00
do .....	do .....	86	2 25	....	193 50
do .....	(Travel,) .....	....	....	103 86	103 86
Julian Hularuski, do	do .....	262	2 00	....	524 00
B. Thornton, do	do .....	3	1 00	....	3 00
E. V. Mathias, do	do .....	15	1 50	....	22 50
John Bisgood, do	do .....	98	3 00	....	294 00
do .....	(Travel,) .....	....	....	95 20	95 20
Wm. S. Watson, do	do .....	93	2 25	....	209 25
Wm. Hartly, Surveyor, .....	do .....	107	2 00	....	214 00
Theo. W. Rumble, Surveyor,	do .....	5½	2 00	....	11 00
do do (Travel,) .....	do .....	....	....	2 50	2 50
Thos. Pitingal, Draughtsman,	do .....	84	2 50	....	210 00
do .....	(Travel,) .....	....	....	129 20	129 20
John H. McAlvine, do	do .....	66	1 50	....	99 00
Alfred W. Barrett, Rodman,	do .....	183	1 25	....	228 75
do .....	do .....	72	1 50	....	108 00
Stephen A. Charles do	do .....	183	1 25	....	228 75
Stephen G. Phillips, do	do .....	60	1 50	....	90 00
H. H. Alling, do	do .....	141	1 12½	....	158 63
Saml. S. Potter, do	do .....	38	1 12½	....	42 75



## TABULAR STATEMENT—(CONTINUED.)

NAMES.	Kind of service.	Time employed. Days.	Rates of compensation.	Travel.	Amounts.
Saml. S. Potter, Rodman,	.....	97	1 25	....	98 75
Howard Cockburn, do	.....	77	1 25	....	96 25
do do (Travel,) .....				103 20	103 20
M. La Fayette Varney, Rodman, .....		79	1 50	....	118 50
do do (Travel,) .....				103 20	103 20
Thos. M. Griffith, do	.....	51	1 25	....	73 75
do do (Travel,) .....				99 20	99 20
John M. Fouquet, Rodman, .....		60	1 25	....	75 00
do do (Travel,) .....				99 20	99 20
Henry M. Lathrop, Tapeman, .....		5	62½	....	3 13
Daniel P. Risley, Chainman, .....		94	1 12½	....	105 74
Charles F. Church, do	.....	54	1 00	....	54 00
John A. Lighthall, do	.....	11	1 00	....	11 00
do do	.....	82	1 12½	....	92 25
do do (Travel,) .....				100 00	100 00
Eben H. Smith, do	.....	92	1 12½	....	92 25
Owen E. O'Maley, do	.....	117	1 12½	....	131 63
James Lundigan, do	.....	8	1 12½	....	9 00
Albert Ernst, Axeman, .....		155	1 00	....	155 00
do do	.....	158	1 12½	....	177 75
Smith Reynolds, do	.....	262	1 00	....	262 00
Patrick Finnegan, Axeman, .....		17	1 00	....	17 00
Reuben C. Olcott, do	.....	52	1 00	....	52 00
Newton T. Smith, do	.....	49	1 00	....	49 00

Enos Mather, do	82	1 00	82 00
Jonas Garter, do	87	1 00	87 00
Lewis B. Lott, Flagman,	21	1 00	21 00
Jerome B. Woodford, Superintendent of mechanical work,	130	2 25	292 50
Richard Willing, do do	179	2 00	358 00
Wm. Leslie, Inspector of masonry,	31	2 00	62 00
Danl. F. Curtiss, do	64	2 50	160 00
Edward P. Weld, Superintendent,	16	1 50	24 00
Newton T. Smith, do	83	1 12½	93 33
Reuben C. Oleott, do	79	1 00	79 00
Civilian Reynolds, do	25	1 25	31 25
Labor,			319 29
Miscellaneous,			147 37
Total,			<u>\$13,622 66</u>

# STATEMENT—(CONTINUED.)

Names.	Nature of duties.	Days employed.	Compensation allowed. Per day.	Amounts.	Totals.
Byron Holley, .....	Assistant in office, .....	134	1 50 to 1 75	231 50	314 89
do .....	Extra allowance by Canal Board, .....	38	2 00	76 00	
do .....	Traveling do .....	...	....	17 39	
L. D. Ireland, .....	Assistant in office, .....	110	1 25 to 1 75	176 50	252 59
do .....	Extra allowance by Canal Board, .....	33	2 00	66 00	
do .....	Traveling, do .....	...	....	10 09	
Wm. Bloss, .....	Assistant in office, .....	96	1 50 to 2 00	170 00	271 34
John M. Carey, .....	Ass't in office and chainman, .....	132	1 25 & 1 50	185 75	
do .....	Extr allowance, .....	37	2 00	74 00	
do .....	Travelling, by Canal Board, .....	...	....	11 59	
William S. Burns, ..	Assistant in office, .....	148	1 50 & 1 75	242 25	332 80
do .....	Extra allowances, .....	40	2 00	80 00	
do .....	Travelling, by Canal Board, .....	...	....	10 55	
N. H. Parker, .....	Ass't in office and ass't leveller, .....	81	1 75 & 2 00	149 00	149 00
J. W. Adams, .....	Ass't in office and rodman, .....	155	1 50 & 2 00	273 50	
do .....	Extra allowance, .....	40	2 00	80 00	
do .....	Travelling, by Canal Board, .....	...	....	10 20	363 70
Sam'l. P. Burrill, ...	Assistant in office, .....	91	1 50	136 50	
H. A. Blyth, .....	Leveller, .....	250	1 75 & 2 00	497 75	
do .....	Extra allowance, .....	40	2 00	80 00	587 95
do .....	Travelling, by Canal Board, .....	...	....	10 20	

Albert Ball, .....	121	1 75	211 75	358 75
do .....	98	1 50	147 00	517 50
H. C. Ruggles, .....	262	1.75 to 2	517 50	630 00
Labern H. Spencer, ..	315	2 00	630 00	59 50
B. M. Hanks, .....	34	1 75	59 50	70 00
D. F. Curtis, .....	28	2 50	70 00	40 00
Jas. McCormick, ....	20	2 00	40 00	17 50
E. P. Taft, .....	14	1 25	17 50	103 75
Chas. Gaul, .....	83	1 25	103 75	262 88
S. D. Newcombe, ....	185½	\$1 25 & 1 50	262 88	100 00
Thos. F. Goodrich, ..	71	1 25 & 1 50	100 00	50 00
G. W. Samson, .....	40	1 25	50 00	
Jno. H. Follett, .....	123	\$1 25 & 1 50	173 50	
do .....	12	2 00	24 00	
do .....			11 84	
Extra allowance, {				
Travelling, { by Canal Board, .....				
Rodman and chairman, .....	143	\$1 25 & 1 50	191 75	209 34
Rodman, .....	29	1 25	36 25	191 75
do .....	2	1 25	2 50	36 25
do .....	5	1 50	7 50	2 50
do .....	2	1 25	2 50	7 50
do .....	2½	1 25	3 13	2 50
do .....	1½	1 25	63	3 13
Tapeman, .....	3½	1 25	4 37	63
do .....	3	1 25	3 75	4 37
do .....	16	1 25	20 00	3 75
Jas. Harris, .....			20 00	20 00
C. L. Curtis, .....				
J. S. Blyth, .....				
Henry Jones, .....				
Jas. Campbell, .....				
H. F. Tower, .....				
Jas. Van Derhoff, ....				
S. G. Mirick, .....				
Jno. Wilmyre, .....				
Elihu Hinman, .....				
Jas. Harris, .....				

## TALULAR STATEMENT—(CONTINUED.)

Names.	Nature of duties.	Days employed.	Compensation allowed. Per day.	Amounts.	Totals.
H. J. Rogers, .....	Tapeman, .....	36	1 25	45 00	45 00
J. P. Drake, .....	do .....	60	1 25	75 00	75 00
H. F. Shepard, .....	do .....	27	1 25	33 75	33 75
T. E. Ellsworth, .....	do .....	15	1 25	18 75	18 75
N. Ruggles, .....	do .....	...	.....	.....	27 50
Jno. E. Ryan, .....	Chairman, .....	85	1 25	106 25	106 25
W. H. Maynard, .....	do .....	5	1 25	6 25	6 25
W. P. Nottingham, ..	do .....	39½	1 25	49 38	49 38
C. F. Perrin, .....	do .....	19	1 25 & 1 50	25 50	25 50
S. B. Wilmarth, .....	do .....	100	1 25	125 00	125 00
Chas. Van Gorder, .....	do .....	62	1 25	77 50	77 50
P. Babcock, .....	do .....	6	1 25	7 50	7 50
J. C. Carey, .....	do .....	10	1 50	15 00	15 00
Carlton Lakey, .....	do .....	2	1 25	2 50	2 50
W. W. Miller, .....	do .....	1	1 25	1 25	1 25
Peter Sherman, .....	do .....	1	1 50	1 50	1 50
Jno. Sherman, .....	do .....	1	1 50	1 50	1 50
Wm. Nichols, .....	Axeman, .....	3	1 to 1 50	4 00	4 00
Jno. Shedaker, .....	do .....	44½	1 25	55 63	55 63
Jno. Strogan, .....	do .....	14	1 25	17 50	17 50
Chas. Berry, .....	do .....	35	1 25	43 75	43 75
James Morana, .....	Axeman, .....	2	1 25	2 50	2 50
S. D. Kimball, .....	do .....	98½	1 00 to 1 25	122 50	122 50
John Sampson, .....	do .....	81	1 25	38 75	38 75

F. Brockway,.....	do	59	1 25	73 75	73 75
Thomas McCarty,...	do	11	1 25	13 75	13 75
William Standish,...	do	4	1 25	5 00	5 00
Michael Russell,...	do	4	1 25	5 00	5 00
James J. Smith,....	do	1	1 25	1 25	1 25
Marcus Kimball,...	do	40½	1 25	50 63	50 63
William Ralph,....	do	4	1 25	5 00	5 00
Nelson Osborne,...	do	6½	1 25	8 13	8 13
Ira Palmetter,.....	do	20	1 25	25 00	25 00
J. Burnet,.....	do	2½	1 25	3 13	3 13
James Sampson,....	do	4	1 25	5 00	5 00
Darius Huff,.....	do	3	1 00	3 00	3 00
William Hickey,....	do	15½	1 00	15 88	15 88
H. Miles,.....	do	5	1 12½	5 62	5 62
Andrus Reinhart,...	do	4	1 00	4 00	4 00
Thomas Gohen,.....	do	3	1 00	3 00	3 00
John Snell,.....	do	1½	1 25	1 63	1 63
L. D. Avery,.....	do	3	1 25	3 75	3 75
Incidental labor,....				1,205 26	1,205 26
Office rent,.....				111 57	111 57
Stationery,.....				881 34	881 34
Miscellaneous,.....				860 45	860 45

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\$25,716 02

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## TABULAR STATEMENT

*Of Engineering expenses for the year 1851, on the Western division of the New-York State canals.*

## JOHN LATHROP, RESIDENT, 2D SUB-DIVISION.

Names.	Kind of service.	Time employed. Year.	Rates of compensation.	Travel.	Amounts.
John Lathrop, .....	Resident engineer, .....	1	\$1,500 00		\$1,500 00
do .....	(Travel,) .....			\$566 78	566 78
Edw. Colman, .....	2d assistant, .....	Days. 319	2 50	....	797 50
do .....	(Travel,) .....	....	....	50 20	50 20
Stephen F. Gooding, ..	do .....	263	2 50	....	655 00
do .....	(Travel,) .....	....	....	20 40	20 40
Henry Pomeroy, ....	do .....	167	2 50	....	417 50
do .....	(Travel,) .....	....	....	14 98	14 98
Theo. Williams, .....	Assistant, .....	118	3 50	....	413 00
do .....	(Travel,) .....	....	....	5 25	5 25
Stationery, .....	.....	....	....	....	370 90
Fuel, .....	.....	....	....	....	47 75
Light, .....	.....	....	....	....	39 02
Office rent, .....	.....	....	....	....	229 42
Postage & telegraph, ..	.....	....	....	....	86 16
Henry A. Blythe, ...	Leveller, .....	38	1 75	....	66 50
S. P. Hamilton, .....	do .....	130	1 75	....	227 50
G. C. Hamilton, .....	do .....	97	2 00	....	194 00
do .....	(Travel,) .....	....	....	5 25	5 25
John Dougherty, ....	do .....	39	1 75	....	68 25

John Dougherty,....	Leveller,.....	79	2 00	....	158 00
do .....	(Travel,) .....	....	....	9 35	9 35
Stephen G. Phillips, ..	do .....	82	1 37½	....	138 25
Stephen A. Charles, ..	do .....	79	1 75	....	138 25
do .....	do .....	....	....	3 72	3 72
Jay Johnson, Draughtsman, .....	do .....	155	1 75	....	271 25
do .....	do .....	79	2 00	....	158 00
do .....	do .....	86	2 25	....	193 50
do .....	(Travel,) .....	....	....	103 86	103 86
Julian Hularuski, do .....	do .....	262	2 00	....	524 00
B. Thornton, do .....	do .....	3	1 00	....	3 00
E. V. Mathias, do .....	do .....	15	1 50	....	22 50
John Bisgood, do .....	do .....	98	3 00	....	294 00
do .....	(Travel,) .....	....	....	95 20	95 20
Wm. S. Watson, do .....	do .....	93	2 25	....	209 25
Wm. Hartly, Surveyor, .....	do .....	107	2 00	....	214 00
Theo. W. Rumble, Surveyor, .....	do .....	54	2 00	....	11 00
do .....	(Travel,) .....	....	....	2 50	2 50
Thos. Pitngal, Draughtsman, .....	do .....	84	2 50	....	210 00
do .....	(Travel,) .....	....	....	129 20	129 20
John H. McAlvine, do .....	do .....	66	1 50	....	99 00
Alfred W. Barrett, Rodman, .....	do .....	183	1 25	....	228 75
do .....	do .....	72	1 50	....	108 00
Stephen A. Charles do .....	do .....	183	1 25	....	228 75
Stephen G. Phillips, do .....	do .....	60	1 50	....	90 00
H. H. Alling, do .....	do .....	141	1 12½	....	158 63
Saml. S. Potter, do .....	do .....	38	1 12½	....	42 75



## TABULAR STATEMENT—(CONTINUED.)

NAMES.	Kind of service.	Time employed. Days.	Rates of compensation.	Travel.	Amounts.
Saml. S. Potter, Rodman,	.....	97	1 25	....	98 75
Howard Cockburn, do	.....	77	1 25	....	96 25
do do (Travel,) .....	(Travel,) .....	....	...	103 20	103 20
M. La Fayette Varney, Rodman,	.....	79	1 50	....	118 50
do do (Travel,) .....	(Travel,) .....	....	....	103 20	103 20
Thos. M. Griffith, do	.....	51	1 25	....	73 75
do do (Travel,) .....	(Travel,) .....	....	....	99 20	99 20
John M. Fouquet, Rodman,	.....	60	1 25	....	75 00
do do (Travel,) .....	(Travel,) .....	....	....	99 20	99 20
Henry M. Lathrop, Tapeman,	.....	5	62½	....	3 13
Daniel P. Risley, Chainman,	.....	94	1 12½	....	105 74
Charles F. Church, do	.....	54	1 00	....	54 00
John A. Lighthall, do	.....	11	1 00	....	11 00
do do	.....	82	1 12½	....	92 25
do do (Travel,) .....	(Travel,) .....	....	....	100 00	100 00
Eben H. Smith, do	.....	82	1 12½	....	92 25
Owen E. O'Maley, do	.....	117	1 12½	....	131 63
James Lundigan, do	.....	8	1 12½	....	9 00
Albert Ernst, Axeman,	.....	155	1 00	....	155 00
do do	.....	158	1 12½	....	177 75
Smith Reynolds, do	.....	262	1 00	....	262 00
Patrick Finnegan, Axeman,	.....	17	1 00	....	17 00
Reuben C. Olcott, do	.....	52	1 00	....	52 00
Newton T. Smith, do	.....	49	1 00	....	49 00

Enos Mather, do	82	1 00	82 00
Jonas Garter, do	87	1 00	87 00
Lewis B. Lott, Flagman,	21	1 00	21 00
Jerome B. Woodford, Superintendent of mechanical work,	130	2 25	292 50
Richard Willing, do do	179	2 00	358 00
Wm. Leslie, Inspector of masonry,	31	2 00	62 00
Danl. F. Curtiss, do do	64	2 50	160 00
Edward P. Weld, Superintendent,	16	1 50	24 00
Newton T. Smith, do	83	1 12½	93 38
Reuben C. Olcott, do	79	1 00	79 00
Civilian Reynolds, do	25	1 25	31 25
Labor,			319 29
Miscellaneous,			147 37
Total,			\$13,622 66

**STATEMENT of persons employed in the Engineer's department on the middle sub-division of the western division of the Erie canal enlargement, from January 1st to February 28th, inclusive, 1851.**

NAMES.	Kind of service.	From	To	Days employed.	Rate of compensation.	Amount.
Stephen F. Gooding, .....	2d ass't engineer, .....	Jan. 1,	Feb 28,	51	\$2 50	\$127 50
Henry Pomeroy, .....	do do .....	do	do	51	2 50	127 50
Hathaway Hurd, .....	do do .....	do	do	51	2 50	127 50
Chas. B. Morse, .....	Engineer, and ass't in office,	do	do	51	2 00	102 00
Julian Hulaniski, .....	Draughtsman, .....	do	do	51	2 00	102 00
Henry C. Ruggles, .....	Leveler, .....	do	do	51	1 50	76 50
Henry A. Blythe, .....	Assistant in office, .....	do	Jan. 29	25	2 00	50 00
do .....	Leveler, .....	Feb. 5.	Feb. 28,	21	1 50	31 50
George F. Newcomb, .....	Rodman, .....	Jan. 1.	" 1,	28	1 25	35 00
Samuel Barrett, .....	Chainman, .....	do	" 11,	36	1 00	36 00
Stephen A. Charles, .....	Rodman, .....	do	" 28,	51	1 25	63 75
Alfred W. Barrett, .....	Assistant in office, .....	do	do	51	1 25	63 75
Smith Reynolds, .....	Axeman, .....	do	do	51	1 00	51 00
Ereatus Hurd, .....	Engineer and draughtsman,	do	Feb. 22,	46	3 50	161 00
Theophilus Williams, .....	Engineer, .....	do	Jan. 29,	25	3 50	87 50
Resident Engineer's travel, 972 miles, at 6 cts, .....						58 32
Miscellaneous expenditures, .....						84 77
Two-thirds of one quarter's salary, at \$1,500 per year, .....						250 00
						<b>\$1,635 59</b>

Payments have been made and vouchers rendered for the several amounts above, except No. 8, for \$31.40. **DAVIS HURD, Asst Engineer.**  
*Engineer's Office, Lockport, March 1, 1851*

# STATEMENT

*Showing the number and compensation of the Engineers employed on the Genesee Valley canal, during the year ending on the 31st day of December, 1851.*

Names.	Station.	Days empl'd.	price per annum.	Am't for travel.	Compensation amount.
O. W. Storey,....	Res'dt eng'r	1 y'r	\$1,500	\$472 50	\$1,500 00
			per day.		
William Mullin,.	1st as't eng,	321	3 50	6 85	1,123 50
extra,....		46	2 00		92 00
Henry A. Smith,	do	141	3 50	16 40	493 50
extra,....		12	2 00		24 00
Benj. B. Hart,...	do	5	3 50		17 50
do	2d do	205	2 50		512 50
Jas. O. Hudnut,.	do	369	2 50	13 65	772 50
extra,....	do	11	2 00		22 00
D. C. Shepard,..	do	74	2 50		185 00
J. N. Green, ....	do	79	2 50		197 50
J. A. Ditto,.....	do	79	2 50		197 50
H. R. Dutton,...	do	79	2 50		197 50
Geo. W. White,.	do	79	2 50		197 50
Wm. Rumble, ..	do surv.	298	2 50		745 00
H. M. Severance,	do	76	2 50		190 00
John A. Ditto,..	Leveler,...	231	2 00		462 00
Geo. W. White,..	do	234	2 00		468 00
Geo. E. Waters,.	do	173	2 00		348 00
J. B. Ward,.....	do	293	2 00	16 80	586 00
extra,....	do	23	2 00		46 00
John Severance,.	do	108	1 50		162 00
do	do	79	1 75		138 25
H. R. Dutton,...	do	35	2 00		70 00
W. L. Storke,...	do	93	2 00		186 00
Geo. W. Pomeroy,	do	79	1 75		138 25
James Jenks,....	do	87	1 75		152 25

Names.	Station.	Days empl'd.	price per annum.	Am't for travel.	Compensation amount.
James Jenks,	Leveler, extra,	44	2 00		88 00
H. E. Brown,...	do	79	2 00		158 00
James Jenks, ...	Rodman, ..	234	1 50		351 00
Geo. W. Pomeroy,	do	234	1 50		351 00
H. E. Brown,...	do	36	1 50		54 00
B. B. Thomas, ..	do	79	1 50		118 50
Willard Porter, .	do	20	1 37½		27 50
do	do	79	1 50		118 50
Robert Orton,...	do	34	1 00		34 00
do ...	do	79	1 10		86 90
O. H. Wizner,...	do	2	1 25		2 50
George Porter, ..	do	79	1 10		86 90
Miner H. Cobb, .	do	76	1 10		83 60
do ...	Chainman,	14	1 00		14 00
George Porter, ..	do	4	1 00		4 00
G. D. Ellithrop, .	do	6	1 25		7 50
Elam Ellithrop, .	do	2	1 25		2 50
A. G. Willard,...	Axeman, ..	6	1 00		6 00
do ..	do	13	1 25		16 25
J. H. Camp, ....	do	9	1 25		11 25
Andw. Kingsley,	do	½	1 25		00 63
W. C. Smith,...	do	4½	1 00		4 50
David Vass, ....	do	1	1 00		1 00
Geo. Kingsley, ..	do	20	1 00		20 00
do ..	do	75	1 10		82 50
Abram Vernan,...	do	11	1 00		11 00
John Kern, .....	do	17	1 00		17 00
do .....	do	79	1 10		86 90
Henry Clark, ...	do	5½	1 00		5 25
E. C. Freeman,...	do	½	1 00		50
Geo. W. Ransom,	do	5	1 25		7 25
A. J. Bloom, ....	do	15½	1 25		19 37
W. R. Bronson,...	do	3	1 25		3 75
Philetus Ingols, .	do	1	1 00		1 00
W. B. Rice, .....	do	1	1 25		1 25
O. G. Chamberlain	do	½	1 00		50
H. C. Blakeslee, .	do	1	1 00		1 00
Abram Farwell, .	do	2	1 00		2 00

Names.	Station.	Days empl'd.	price per annum.	Am't for travel.	Compensation amount.
Chas. Pierce,....	Axeman, ..	79	1 00		79 00
James Mullins,..	Draftsman,	309	1 75		540 75
Wm. S. Watson,.	do	210	2 00		420 00
Thos. Daly,.....	Office clerk,	316	2 00	13 70	632 00
extra,.....	do	36	2 00		72 00
J. P. Wood, ....	do	219	1 75		383 25
do ....	do	82	2 00	14 70	164 00
extra,.....	do	27	2 00		54 00
Jas. McWeeney,.	Inspector, -	77	1 50		115 50
do	do	139	1 75		243 25
Frank'n Witherel	do	65	1 25		81 25
R. F. Laring, ...	do	69	2 00		138 00

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\$14,034 55

Travel, .....	560 95
Stationery, .....	249 18
Fuel,.....	44 46
Lights, .....	40 16
Office rent,.....	133 29
Postage, telegraph, .....	47 08
Labor,.....	11 50
Miscellaneous .....	113 40

Total amount, .....	\$15,233 57
Total expenditures by D. Marsh, .....	25,716 02
do by John Lathrop,.....	13,622 66
do by Davis Hurd, .....	1,635 59
Division engineer's salary and expenses,.....	2,748 19
Total expenditures in engineer department western division, .....	<u>\$53,956 03</u>

# **TABULAR STATEMENT**

*Showing the length and estimated cost of work under contract previous to 1851, not completed, and the amount of work done and remaining to be done at contract prices on the western division of the State canal up to January 1st, 1852.*

*First sub-division—D. MARSH, Resident Engineer.*

KIND OF WORK.		Length of section or No. of struc're.	Estimate at contract prices.	Amount done at con- tract prices.	Remaining to be done at contract prices.
Clyde, ...	Section No. 212,	1.13	\$32,150 69	\$22,878 00	\$9,272 69
Lyons, ...	do 219,	0.34	17,319 37	1,408 00	15,911 37
Newark, ..	do 231,	0.74	24,666 75	2,956 00	21,710 75
Brighton, .	do 261, (1)	0.11	2,524 30	2,073 00	451 30
do	do 261, (2)	1.35	32,462 56	27,113 00	5,349 56
Brockport, do	do 284, (22)	0.84	19,149 33	11,852 90	7,296 43
Albion, ...	do 306, (44)	0.91	26,308 94	4,609 90	21,699 04
Bridges on	section 261, (2)	2	4,735 77	1,378 00	3,357 77
do	do 22,	1	2,895 46	528 00	2,367 46
Culverts, do	do 22,	2	3,204 88	478 00	2,726 88
Waste weir, do	do 212,	1	891 90	.....	891 90
Clyde lock, ..	.....	1	24,816 32	23,538 00	1,278 32
Lock Berlin, ..	.....	1	26,082 40	2,352 00	23,730 40
Lock No. 68, (2)	.....	1	22,611 47	22,893 00	217 57
Valves for locks Nos. 1, 2, and 3, ..	.....	3	3,251 03	3,050 00	201 03
Totals, .....			\$248,071 17	\$126,608 70	\$116,462 47

## TABULAR STATEMENT

*Showing the length and estimated cost of work on the second sub-division of the western division of the enlargement of the Erie canal put under contract previous to January, 1851, and the amount done and remaining to be done on the same, up to January 1, 1852.*

JOHN LATHROP, Resident Engineer.

	No. of miles or number of structures	Est'd cost at contract pri- ces.	Amount done.	Amount to be done.
Medina section, (No. 321,).....	.95 miles.	\$40,784 80	\$2,200 00	\$38,584 80
Aqueduct at Medina, .....	1 in No.	23,373 00	12,825 00	20,548 00
Section No. 5, Mountain Ridge, $\frac{1}{4}$ mile.		33,373 00	17,470 00	15,903 00
do 6, do do do	do	65,941 00	25,415 00	40,526 00
do 7, do do do	do	65,031 20	11,166 00	53,865 20
do 8, do do do	do	61,535 35	24,586 00	36,939 35
do 9, do do do	do	53,249 00	25,235 00	28,014 00
do 10, do do do	do	58,056 20	23,711 00	44,345 20
do 11, do do do	.45 miles.	62,314 00	28,316 00	33,998 00
do 12, do do do	$\frac{1}{4}$ do	61,639 00	26,943 00	34,696 00
do 13, do do do	do	82,020 00	32,575 00	49,445 00
do 14, do do do	.36 do	57,885 65	37,364 00	20,521 65
Ship lock at Black Rock,.....	1 in No.	48,853 13	37,130 00	11,723 13
Sections 1 and 2 in the city of				
Buffalo, .....	1.63 miles.	75,465 78	59,390 65	16,075 13
Erie Basin and slips, .....		215,045 73	112,350 00	102,695 73
Main and Hamburg-st. canal, .	.39 miles.	4,760 77	3,650 00	1,110 77
Swing bridge on Ohio-street,...	1 in No.	5,937 56	4,830 00	1,107 56
	7.78 miles.	\$1,045,265 17	\$485,156 65	\$560,108 52



# GENESEE VALLEY CANAL.

## TABULAR STATEMENT

*Showing the estimated cost of work let since the resumption in 1847, the amount of work done and remaining to be done at contract prices, January 1st, 1852.*

O. W. STOREY, Resident Engineer.

CONTRACTS.	Contractors Firm.	Cost at contract prices.		Amount done.	To be done.
Sections 42, 43, 44, 45 &c., .....	Jno. Hayes & Co., .....	\$21,900 00	\$21,069 00	\$831 00	
do 47 &c., .....	Robert Ennis, .....	11,800 00	11,639 00	161 00	
do 52, 53, 55 and 56, .....	Geo. Williams & Co., .....	16,603 47	16,603 47		
do 54 deep cut, .....	Surranus Britton & Co., .....	79,561 47	79,561 47		
Portage tunnel, .....	Asa D. Wood, .....	8,542 03	8,542 03		
Cliff line, .....	N. C. Edgerton & Co., .....	66,500 00	63,738 00	2,762 00	
Section 57, .....	A. M. Nelson & Co., .....	623 00	623 00		
do 57 and 58, .....	C. F. Chamberlain & Co., .....	80,000 00	62,706 00	17,294 00	
do 59, 60, 61 and 62, .....	Jas. O'Maley, .....	20,387 06	20,387 06		
do 63, 64, 65 and 66, .....	Robert Ennis, .....	14,100 00	13,945 00	155 00	
do 67, 68 and 69, .....	Sharp & Quinn, .....	29,271 57	29,088 00	183 57	
do 70, 71, 72 and 73, .....	J. M. Hammond & Co., .....	9,406 38	9,406 38		
Sec. 74, 75, 76, 77 and G. R. Feeder, .....	Henry Cady, .....	18,260 62	18,260 62		
Ditches in Sparta, .....	Wm. McArthur, .....	3,600 00	3,161 00	439 00	
Sections 79, 80 and 81, .....	Wm. N. Marsh, .....	9,847 00	.....	9,847 00	
do 82, 83 and 84, .....	Henry Cady, .....	4,917 00	.....	4,917 00	
do 85, 86 and 87, .....	Jas. O'Maley, .....	11,780 00	.....	11,780 00	
do 88, 89 and 90, .....	N. C. Edgerton & Co., .....	9,019 00	.....	9,019 00	
do 92, 93 and 94, .....	Abm. Vernam, .....	20,560 00	6,810 00	13,750 00	



# TABULAR STATEMENT—(CONTINUED.)

CONTRACTS.	Contractor's Firm.	Cost at contract prices.	Amount done.	To be done.
Locks 41, .....	Britton, Spencer & Co., .....	\$3,200 00	\$3,151 00	\$49 00
do 48, .....	D. J. McDonald, .....	848 00	848 00	
do 47, 48, 49, 51, 52, 54, 55, 56, 57	Andrew Blass & Co., .....	24,900 00	24,127 00	773 00
do 50, 58 and 60, .....	Woodard & Peck, .....	22,241 80	22,241 80	
do 53, .....	Tousley & James, .....	5,167 09	5,167 09	
do 59, 61, 64, 66, 68, 69, 70 & 71,	A. Blass & Co., .....	21,200 00	20,613 00	587 00
do 62, 63, 65 and 67, .....	J. B. Flint, .....	.....	.....	
do 62, 63 and 65, .....	Chamberlain & Bradley, .....	13,100 00	12,986 00	214 00
do 67 and guard lock No. 3, ..	O. Thomas & Co., .....	11,933 08	11,933 08	
Guard lock No. 3, .....	J. B. Flint, .....	542 00	542 00	
Valve gates for all locks, .....	Alfred Bell, .....	10,775 38	10,775 38	
Locks 72, 73, 74, 75 76, and 77, ..	John T. Wright, .....	27,738 00	9,230 00	18,508 00
do 78, 79 and 80, .....	H. Hunt & Co., .....	27,000 00	8,440 00	18,560 00
do 81, 82 and 83, .....	Britton, Spencer & Co., .....	21,800 00	700 00	21,100 00
do 84, 85, 86, 87, 88, and 89, ..	Wm. Ridsdale & Co., .....	32,500 00	5,580 00	26,920 00
do 90, 91 and 92, .....	B. Sherman, .....	18,500 00	2,040 00	16,460 00
do 93, 94, 95, 96 and 97, .....	G. W. Peck, .....	36,000 00	9,570 00	26,430 00
do 98 and 99, .....	Geo. Minard, .....	13,600 00	1,470 00	12,130 00
do 100, 101 and 102, .....	C. T. Chamberlain, .....	29,063 00	1,648 00	27,415 00
do 103, 104 and Olean aqueduct,	Flemming & Larkin, .....	29,815 00	5,140 00	24,675 00
do 105, .....	H. M. Severand, .....	11,280 00	.....	11,280 00

do 106, .....	C. Keyes & Co., .....	16,000 00	.....	16,000 00
Valve gates 72 to 106, .....	Seymour & Wood, .....	7,000 00	.....	7,000 00
<b>Totals for locks, .....</b>		<b>\$498,253 25</b>	<b>\$268,876 40</b>	<b>\$229,376 85</b>
<b>Aqueducts.</b>				
Cashagno creek, No. 2, .....	L. J. Peck, .....	\$7,216 15	\$7,216 15	
Brushville, .....	Geo. W. Peck & Co., .....	2,219 48	2,219 48	
Portage, .....	Abm. Wigg & Co., .....	41,835 47	41,835 47	
Wisoy, Cold and Houghton creek, .....	J. B. Flint, .....	470 00	470 00	
Wisoy creek, .....	Sharp and Quinn, .....	7,589 45	7,589 45	
Cold Houghton creek, .....	Clark & Sherrill, .....	8,920 39	8,920 39	
Caneada creek, .....	Jas. Wells, ....	5,000 00	4,875 00	\$125 00
Superstructure of Portage aqueduct, .....	M. S. Ross, .....	2,929 00	2,929 00	
do	Wm. Ridsdale & Co., .....	6,129 00	6,129 00	
Ischna aqueduct, .....	Nelson Hewitt, .....	3,860 00	.....	3,860 00
<b>Total for aqueducts, .....</b>		<b>\$86,168 94</b>	<b>\$82,183 94</b>	<b>\$3,985 00</b>
<b>Culverts on section No. 46, .....</b>				
do do 47, .....	S. J. Peck, .....	\$577 00	\$577 00	
do do 54, .....	Alfred Lee, .....	467 77	467 77	
do do 71 and 77, ..	Vernam and Mills, .....	368 89	368 89	
do do 71, .....	W. N. Marsh, .....	3,198 13	3,198 13	
do do 77, .....	D. S. McDonald, .....	417 00	417 00	
do do 9, .....	do	711 00	711 00	
		1,910 86	889 00	1,021 36
<b>Total for culverts, .....</b>		<b>\$7,650 15</b>	<b>\$6,628 79</b>	<b>\$1,021 36</b>

# TABULAR STATEMENT—(CONTINUED.)

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Assembly

CONTRACTS.	Contractor's Firm.	Cost at contract prices.	Amount done.	To be done.
Waste weirs.				
On sections Nos. 46 and 49, .....	L. J. Peck, .....	\$1,140 00	\$1,026 00	\$114 00
do 50, 53, 55 and 56, .....	Cyrus Rose, .....	2,301 55	2,301 55	
do 57 and 60, .....	Peter Dunn, .....	667 96	667 96	
do 71, .....	Austin Partridge, .....	580 00	580 00	
Total for waste weirs, .....		\$4,689 51	\$4,575 51	\$114 00
Bridges on Secs. 41 to 52 inclusive.	Sawyer Peck, .....	\$12,600 00	\$11,812 00	\$788 00
do on Secs. 53 to 69 inclusive.	Keyes & Nevins, .....	20,900 00	20,073 00	827 00
do do 70 to 77 inclusive.	A. L. Burr & Co., .....	7,840 00	7,652 00	188 00
do at wings of lock 46, .....	G. Lighthall, .....	330 00	160 00	170 00
do on Sec. from 78 to 84, .....	" .....	3,351 00	.....	3,381 00
do do 85 to 89, .....	L. J. Peck, .....	3,248 00	.....	3,248 00
do do 92 to 98 inc.	A. L. Burr, .....	6,003 00	.....	6,003 00
do do 99 to 103 inc.	N. Coe & Co., .....	5,071 00	.....	5,071 00
do do 107, .....	N. Hewitt, .....	1,540 00	.....	1,540 00
do at Troup-street, .....	.....	1,220 00	1,220 00	
Total for bridges, .....		\$62,103 00	\$40,917 00	\$21,186 00

Dam bulkhead at Mt. Morris, . . . .	Abm. Wigg, . . . . .	4,012 73	4,012 73
do at Wiscoy Creek, . .	M. L. Ross, . . . . .	6,800 05	6,800 05
Reservoirs, at Rockville, Improve't.	Wm. Ridsdale & Co., . . . . .	3,000 00	3,000 00
do Oil Creek, . . . . .	Abm. Vernam, . . . . .	55,500 00	55,500 00
Total for dams and reservoirs, . .		\$69,312 78	\$10,812 73
			\$58,500 00

## ENLARGEMENT ERIE CANAL.

*Summary of the preceding statements.*

WORK.	Miles in length or number of structures.	Cost at con- tract prices.	Am't done.	Amount to be done.
Sections,.....	13.10	\$896,637 69	\$390,012 45	\$506,725 24
Erie basin and slips,.....	1	215,045 73	112,350 00	102,695 73
Locks, valves, &c.,.....	4	122,363 32	85,413 90	36,949 42
Aqueducts,.....	1	33,373 00	12,825 00	20,548 00
Aqueducts,.....	2	3,204 88	478 00	2,726 88
Waste weirs,.....	1	891 90	.....	891 90
Bridges,.....	4	13,558 79	6,736 00	6,822 79
		\$1,288,336 34	\$611,765 35	\$676,570 99

## GENESEE VALLEY CANAL.

WORK.	Miles in length or number of structures.	Cost at contract prices.	Am't done.	Amount to be done.
Sections, .....	66	\$537,572 60	\$378,388 03	\$159,184 57
Locks, including one aqueduct, ..	98	498,283 25	268,876 40	229,376 85
Aqueducts, .....	8	86,168 94	82,183 94	3,985 00
Culverts, .....	6	7,650 15	6,628 79	1,021 36
Waste weirs, .....	7	4,689 51	4,575 51	114 00
Bridges, .....	98	62,103 00	40,917 00	21,186 00
Dams, bulkheads, and reservoirs, ..	6	69,312 78	10,812 78	58,500 00
Total for Genesee Valley Canal, .....		\$1,265,750 23	\$792,382 45	\$473,367 78
E. E. Canal brought down, ....		1,288,336 34	611,765 35	676,570 99
		\$2,554,086 57	\$1,404,147 80	\$1,149,938 77



# TABULAR STATEMENT

Of work let Dec. 29th, 1851, showing the length of sections, number of structures, estimated cost and cost at contract prices.  
First sub-division—D. MARSH'S residency.

NAMES OF CONTRACTORS.	No. of section	Length of section or No. of structure.	Estimated cost.	Totals.	Cost at contract prices.	Totals.
Wm. A. Sackett & Co.,.....	207	1.68 miles,.....	\$114,924 00		\$99,601 00	
H. E. Storrs & Co.,.....	do	Culverts,.....	6,503 00		5,095 75	
R. Ennis & Co.,.....	do	1 bridge abutment,	1,609 00		1,621 90	
E. Corning & Co.,.....	do	1 do superstr's,...	1,277 12	\$124,313 12	1,445 00	\$107,763 65
A. B. Bradshaw,.....	208	1.15 miles,.....	\$28,600 00		\$25,191 00	
J. N. Stage,.....	do	1 waste-wier,.....	1,412 00		1,160 15	
Robert Ennis & Co.,.....	do	1 culvert,.....	2,289 00		1,852 70	
Robert Ennis & Co.....	do	1 bridge abutment,	1,605 00		1,717 20	
E. Corning & Co.,.....	do	1 superstructure,...	1,277 12	35,183 12	1,445 00	31,366 05
C. T. Chamberlain & Co.,...	209	1.17 miles,.....	\$28,220 00		\$25,677 00	
J. N. Stage,.....	do	1 culvert,.....	2,487 00		1,688 00	
Ennis Dodge & Co.,.....	do	1 bridge abutment,	1,619 00		1,669 80	
E. Corning & Co.,.....	do	1 superstructure,...	1,277 12	33,603 12	1,445 00	30,479 80
Ethan Clarke,.....	210	1.13 miles,.....	\$4,456 00		\$27,109 00	
E. T. Chamberlain,.....	do	2 culverts,.....	8,539 00		7,042 25	
B. Birchard & Co.,.....	do	2 bridge abutm'ts,...	2,720 00		2,394 56	
E. Corning & Co.,.....	do	2 superstructures,...	1,615 00	43,330 00	1,615 00	38,160 81

Henry Cady & Co.,.....	211	1.07 miles,.....	\$29,764 00		\$23,583 00	
C. T. Chamberlain & Co.,..	do	1 culvert,....	2,681 00	32,445 00	2,878 00	25,956 00
Jno. Layton & Co.,.....	212	0.35 mile,.....	\$17,817 00		\$17,864 26	
Ennis, Dodge & Co., .....	do	2 bridge abutm'ts.	3,348 00		3,361 00	
E. Corning & Co.,.....	do	2 superstructures.	4,675 26	25,840 26	4,675 26	25,900 52
Jno. Layton & Co.,.....	213	0.87 mile,.....	\$23,039 00		\$21,408 00	
Chamberlain & Bradley, ..	do	2 bridge abutm'ts.	2,674 00		2,081 60	
E. Corning & Co.,.....	do	2 superstructures.	1,615 00	27,328 00	1,615 00	25,164 60
Charles Nichols & Co.,.....	214	0.78 miles,.....	\$29,000 00		\$21,670 00	
C. T. Chamberlain & Co.,..	do	1 culvert,.....	2,428 00		2,001 69	
Ennis, Dodge & Co.,.....	do	1 bridge abutment,	1,316 00		1,872 34	
E. Corning & Co.,.....	do	1 superstructure, ..	807 50	33,564 50	807 50	25,851 53
Charles Nichols & Co.,.....	215	0.77 miles,.....	\$25,575 00		\$19,568 00	
A. B. Williams & Co.,.....	do	1 culvert,.....	6,294 00		4,820 50	
Ethan Clarke,.....	do	1 waste-way,.....	1,342 00		1,197 05	
Ennis, Dodge & Co., .....	do	1 bridge abutment,	1,377 00		1,389 70	
E. Corning & Co.,.....	do	1 superstructure, ..	807 50	35,395 50	807 50	27,772 75
Charles Nichols & Co.,.....	216	1.13 miles,.....	\$42,123 00		\$32,356 00	
H. E. Storrs & Co.,.....	do	2 culverts,.....	8,895 00		7,141 00	
Chamberlain & Bradley, ..	do	3 bridge abutm'ts.,	4,813 00		3,695 70	
E. Corning & Co.,.....	do	3 superstructures.	3,831 36	59,661 36	4,835 00	47,537 70

# STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section.	Length of section or No. of structure.	Estimated cost.	Total.	Cost at contract prices.	Total.
E. B. Price & Co., .....	217	1.08 mile, .....	\$46,984 00		\$38,033 00	
Ennis, Dodge & Co., .....	do	2 bridge abutm'ts, ..	3,022 00		2,961 60	
E. Corning & Co., .....	do	2 superstructures, ..	2,252 52	\$52,258 50	2,252 52	\$43,247 10
A. B. Williams & Co., .....	218	1.27 mile, .....	\$62,469 00		\$56,146 00	
Jacob Leach & Co., .....	do	2 culverts, .....	6,901 00		5,845 46	
Ennis, Dodge & Co., .....	do	4 bridge abutm'ts, ..	5,862 00		5,819 40	
E. Corning & Co., .....	do	4 superstructures, ..	4,505 00	79,737 00	4,505 00	72,315 86
James W. Clarke, .....	219	1 waste weir, .....	\$1,431 00		\$1,195 20	
A. L. Dodge & Co., .....	do	3 bridge abutm'ts, ..	5,317 00		3,991 22	
E. Corning & Co., .....	do	3 do super, .....	8,196 86	14,944 86	8,196 86	13,393 28
G. W. Barnard, .....	228	1.03 mile, .....	\$34,582 00		\$30,159 00	
Robert Ennis, .....	do	2 culverts, .....	5,761 00		4,698 30	
Ennis, Dodge & Co., .....	do	3 bridge abutm'ts, ..	4,585 00		4,510 40	
E. Corning & Co., .....	do	3 do super, .....	3,697 50	48,625 50	3,697 50	43,065 20
Robert S. Nellis, .....	229	1.05 mile, .....	\$31,369 00		\$24,966 00	
Samuel Moore, .....	do	1 culvert, .....	3,712 00		2,165 00	
Ennis, Dodge & Co., .....	do	1 bridge abutm't, ..	1,631 00		1,631 10	
E. Corning & Co., .....	do	1 do super, .....	807 50	36,519 50	807 50	29,569 60

Ennis, Dodge & Co.,.....	231	2 bridge abutm'ts, ..	\$3,597 00	\$3,478 60		
E. Corning & Co.,.....	do	2 do. super.,...	4,920 84	4,920 84	8,517 84	8,399 44
A. O. Lamoreau,.....	232	1.04 mile,.....	\$26,997 00	\$23,777 50		
A. E. Storrs & Co.,.....	do	1 culvert,.....	5,082 00	4,277 00		
James W. Clarke,.....	do	1 waste weir,.....	1,863 00	1,120 48		
Levi Chase,.....	do	1 bridge abutm't, ..	1,631 00	1,312 80		
E. Corning & Co.,.....	do	1 do super.,...	1,277 12	1,445 00		
John Vernam & Co.,.....	233	1.05 mile,.....	\$26,279 00	\$24,496 00	36,350 12	31,932 78
Levi Chase,.....	do	1 bridge abutm't, ..	1,629 00	1,311 50		
E. Corning & Co.,.....	do	1 superstructure, ..	1,277 12	1,445 00		
John Vernam & Co.,.....	234	0.95 mile,.....	\$41,017 00	\$39,820 20	29,185 12	27,252 50
Daniel Kenyon,.....	do	1 culvert,.....	3,943 00	3,181 10		
Levi Chase,.....	do	2 bridge abutm'ts, ..	3,103 00	2,522 38		
E. Corning & Co.,.....	do	2 do super.,...	3,512 20	3,512 20	51,575 20	49,035 88
J.W. Goodrich,.....	235	0.90 mile,.....	\$23,487 00	\$17,963 00		
Levi Chase,.....	do	2 bridge abutm'ts, ..	3,320 00	2,663 30		
E. Corning & Co.,.....	do	2 superstructures, ..	2,554 24	2,890 00	29,361 24	23,516 30
E. Ennis,.....	236	1 mile,.....	\$26,453 00	\$22,890 00	26,453 00	22,890 00
W. S. Church,.....	237	1 mile,.....	\$27,133 00	\$25,133 00		
Levi Chase,.....	do	1 bridge abutm't, ..	1,700 00	1,357 78		
E. Corning & Co.,.....	do	1 do super.,...	1,277 12	1,445 00	30,110 12	27,935 78

# STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.		No. of section	Length of section or No. of structure.	Estimated cost.	Total.	Cost at contract prices.	Total.
Robert Ennis, .....	238	1 mile, .....		\$35,500 00		\$31,394 00	\$36,581 20
Daniel Kenyon, .....	do	1 culvert, .....		4,198 00		3,316 10	
Levi Chase, .....	do	1 bridge abutment, ..		1,303 00		1,063 60	
E. Corning & Co., .....	do	1 superstructure, ..		807 50		807 50	
T. J. Richmond & Co., .....	239	1.02 mile, .....		\$41,004 00	\$41,808 50	\$35,756 00	45,285 11
John Vernam & Co., .....	do	1 culvert, .....		5,953 00		5,662 50	
Levi Chase, .....	do	2 bridge abutm'ts, ..		2,798 00		2,251 61	
E. Corning & Co., .....	do	2 do super, .....		1,615 00	51,370 00	1,615 00	
E. Ennis & Co., .....	241	1.02 mile, .....		\$30,994 00		\$27,264 00	59,287 57
Petar Boyce, .....	do	1 aqueduct, .....		33,935 00		26,146 37	
S. J. Hunt, .....	do	2 bridge abutm'ts, ..		3,020 00		2,365 00	
E. Corning & Co., .....	do	2 do super, .....		3,512 20	71,461 20	3,512 20	
E. Ennis & Co., .....	242	0.88 mile, .....		\$19,787 00		\$16,822 00	21,489 62
S. J. Hunt, .....	do	2 bridge abutm'ts, ..		3,093 00		2,415 12	
E. Corning & Co., .....	do	2 do super, .....		2,252 50	25,132 50	2,252 50	
E. Ennis & Co., .....	243	0.87 mile, .....		\$16,768 00		\$15,042 00	
S. J. Hunt, .....	do	1 bridge abutment, ..		1,631 00		1,277 70	17,764 70
E. Corning & Co., .....	do	1 do super, .....		1,277 12	19,676 12	1,445 00	

E. Ennis & Co., .....	245	0.32 mile, .....	\$9,110 00			\$8,401 00	
S. J. Hunt, .....	do	1 bridge abutment,	1,914 00		12,301 12	1,494 18	
E. Corning & Co., .....	do	1 do super.,...	1,277 12			1,445 00	11,340 18
Clarke & Learned, .....	246	1.10 mile, .....	\$32,040 00			\$26,399 52	
J. H. Sherrill & Co., .....	do	1 culvert, .....	1,732 00			1,387 93	
B. Burchard & Co., .....	do	1 bridge abutment,	1,248 00			1,209 29	
E. Corning & Co., .....	do	1 do super.,...	1,277 12		36,297 12	1,445 00	30,441 74
Clarke & Learned, .....	247	1.10 mile, .....	\$37,847 00			\$31,397 52	
B. Burchard & Co., .....	do	1 bridge abutment,	1,248 00			1,209 29	
E. Corning & Co., .....	do	1 do super.,...	1,277 12		40,372 12	1,445 00	34,051 81
A. P. McDonald, .....	248	0.84 mile, .....	\$33,499 00		33,499 00	\$25,303 60	25,303 60
W. S. Church, .....	249	0.84 mile, .....	\$41,302 00			\$35,152 40	
B. Burchard & Co., .....	do	1 bridge abutment,	1,248 00			1,209 29	
E. Corning & Co., .....	do	1 do super.,...	1,277 12		43,827 12	1,445 00	37,806 69
S. Clarke & Co., .....	250	1 mile, .....	\$54,913 00			\$49,099 65	49,099 65
D. H. Richardson, .....	251	1 mile, .....	\$54,342 00		54,913 00	\$53,291 20	53,291 20
D. H. Richardson, .....	252	1.04 mile, .....	\$45,740 00		54,342 00	\$44,011 80	
B. Burchard & Co., .....	do	2 bridge abutm'ts,	2,309 00			2,251 94	
E. Corning & Co., .....	do	2 do super.,...	2,252 50		50,301 50	2,252 50	48,516 24

# STATEMENT—(CONTINUED.)

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[ASSEMBLY

NAMES OF CONTRACTORS.	No. of section	Length of section or No. of structure.	Estimated cost.	Totals.	Cost at contract prices.	Totals.
W. S. Church, .....	253	1 mile, .....	\$24,827 00		\$23,712 80	
B. Burchard & Co., .....	do	2 bridge abutm'ts, ..	2,496 00		2,418 58	
E. Corning & Co., .....	do	2 superstructures, ..	3,512 20		3,512 20	
B. Pringle, .....	do	1 culvert, .....	1,732 00	\$32,567 20	2,223 81	30,867 39
D. H. Richardson, .....	254	1.04 miles, .....	\$33,839 00		\$29,771 80	
Lewis Selye, .....	do	1 waste-wier, .....	700 00		628 26	
B. Burchard & Co., .....	do	1 bridge abutm't, ..	1,248 00		1,163 79	
E. Corning & Co., .....	do	1 do superst're, ..	807 50	36,594 50	807 50	32,371 35
George Law, .....	255	1.24 miles, .....	\$393,491 00		\$347,571 00	
J. H. Sherill & Co., .....	do	1 culvert, .....	34,675 00		23,746 80	
Lewis Selye, .....	do	1 do .....	6,674 00	434,840 00	6,296 50	377,614 30
H. N. Norman & Co., .....	256	0.90 mile, .....	\$99,635 00		\$81,007 40	
B. Burchard & Co., .....	do	2 bridge abutm'ts, ..	2,309 00		2,167 94	
E. Corning & Co., .....	do	2 do superst's, ..	2,252 50	104,196 50	2,252 50	85,427 84
H. V. Colt, .....	257	1.01 miles, .....	\$70,468 00		\$60,752 50	
B. Burchard & Co., .....	do	3 bridge abutm'ts, ..	3,370 00		3,172 09	
E. Corning & Co., .....	do	3 do superst's, ..	3,060 00	76,898 00	3,060 00	66,984 59

G. W. Baldwin, .....	258	0.80 mile, .....	\$32,113 00		\$31,793 00		
B. Burchard & Co., .....	do	2 bridge abutm'ts, ..	2,309 00		2,167 94		
E. Corning & Co., .....	do	2 do superstr's, .....	2,252 50		2,252 50		36,213 44
N. E. Paine, .....	259	1.08 miles, .....	\$231,462 00		\$229,171 00		
J. H. Sherrill & Co., .....	do	1 culvert, .....	15,068 00		8,388 00		
Kingsley & James, .....	do	Lock 64, .....	23,270 00		23,813 85		
Seymour & Wood, .....	do	Valves, .....	559 00		842 68		
James R. Thomson, .....	do	1 waste weir, .....	700 00		641 33		261,306 86
L. A. G. B. Grant, .....	260	1.33 miles, .....	\$62,166 00		\$45,894 00		
George Williams & Co., .....	do	Lock 66, .....	28,470 00		27,384 47		
G. J. Whitney & Co., .....	do	Lock 65, .....	22,962 00		20,638 75		
Peter Boyce, .....	do	1 aqueduct, .....	13,529 00		11,554 98		
Seymour & Wood, .....	do	Valves, .....	1,118 00		1,685 36		
Elias Knapp, .....	do	2 culverts, .....	1,962 00		1,509 51		
B. Burchard & Co., .....	do	3 bridge abutm'ts, ..	3,557 00		3,271 73		
E. Corning & Co., .....	do	3 do superstr's, .....	4,941 90		4,941 90		116,880 70
O. Charlick, .....	262	1.60 miles, .....	\$57,112 00		\$57,676 26		
Lewis Selye, .....	do	Guard lock, .....	11,858 00		11,197 59		
Seymour & Wood, .....	do	Valves, .....	559 00		842 68		
John L. Clarke & Co., .....	do	1 culvert, .....	1,370 00		1,220 36		
B. Burchard & Co., .....	do	2 bridge abutm'ts, ..	4,049 00		3,617 24		
E. Corning & Co., .....	do	2 do superstr's, .....	5,862 20		5,862 20		80,416 23
				36,674 50			
				271,059 00			
						188,695 90	
							80,810 20



# STATEMENT--(CONTINUED.)

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ASSEMBLY

NAMES OF CONTRACTORS.	No. of section	Length of section or No. of structure.	Estimated cost.	Totals.	Cost at contract prices.	Totals.
G. J. Whitney & Co., .....	266	1 mile, .....	\$37,354 00		\$34,647 18	
James R. Thomson, .....	do	2 culverts, .....	5,857 00		4,835 85	
James R. Thomson, .....	do	1 waste weir, .....	1,110 00		1,059 80	
B. Burchard & Co., .....	do	1 bridge abutment, ..	1,597 00		2,269 50	
E. Corning & Co., .....	do	1 do superstr'e, ..	1,277 12	\$47,195 12	1,445 00	\$44,257 33
William Candee & Co., .....	267	1 mile, .....	\$33,084 00		\$31,779 00	
James R. Thomson, .....	do	1 culvert, .....	1,414 00		1,266 64	
J. Hall, .....	do	1 bridge abutment, ..	1,280 00		1,042 90	
E. Corning & Co., .....	do	1 superstructure, ..	897 50	36,585 50	807 50	31,896 04
J. Jenkinson & Co., .....	268	1.02 miles, .....	\$21,532 00		\$20,534 00	
Isaac Hall, .....	do	1 bridge abutment, ..	1,597 00		1,242 25	
E. Corning & Co., .....	do	1 do superstr'e, ..	1,277 12	24,406 12	1,445 00	23,221 25
A. Barnard, .....	269	1 mile, ..	\$25,572 00	25,572 00	\$25,141 00	25,141 00
W. N. Marsh, .....	270	1 mile, .....	\$25,476 00		\$22,687 20	
James R. Thomson, .....	do	1 culvert, .....	4,918 00		4,228 12	
Isaac Hall, .....	do	3 bridge abutm'ts, ..	4,474 00		3,527 40	
L. J. Peck, .....	do	2 do do	2,877 00		2,230 20	
E. Corning & Co., .....	do	5 do superstr'e, ..	6,020 00	43,675 00	6,020 00	38,692 92

A. Barnard, .....	271	0.98 mile, .....	\$24,416 00		\$24,104 50		
O. Butler, jr. & Co., .....	do	1 culvert, .....	5,828 00		4,844 55		
L. J. Peck, .....	do	1 bridge abutment, .....	1,280 00		1,009 60		
E. Corning & Co., .....	do	1 do superstr'e, .....	817 00		817 00		30 775 65
Daniel Sharp, .....	272	0.99 mile, .....	\$29,847 00		\$29,446 00		
L. J. Peck, .....	do	2 bridge abutments, .....	3,194 00		2,441 20		
E. Corning & Co., .....	do	2 do superstr's, .....	2,924 00		2,924 00		34,811 20
H. P. Mills & Co., .....	273	1 mile, .....	\$25,914 00		\$23,923 20		
L. J. Peck, .....	do	1 bridge abutment, .....	1,597 00		1,220 60		
E. Corning & Co., .....	do	1 do superstr'e, .....	1,479 00		1,479 00		26,620 80
John L. Clark & Co., .....	274	1 mile, .....	\$22,857 00		\$21,270 20		
O. Butler, jr. & Co., .....	do	1 culvert, .....	1,362 00		1,259 84		
L. J. Peck, .....	do	1 bridge abutment, .....	1,597 00		1,220 60		
E. Corning & Co., .....	do	1 do superstr'e, .....	1,479 00		1,479 00		25,229 64
C. B. Thomson & Co., .....	275	1 mile, .....	\$24,882 00		\$24,214 30		
James R. Thomson, .....	do	1 culvert, .....	4,120 00		3,677 65		
James R. Thomson, .....	do	1 waste pier, .....	1,110 00		1,080 05		
L. J. Peck, .....	do	1 bridge abutment, .....	1,280 00		1,009 60		
E. Corning & Co., .....	do	1 do superstr'e, .....	826 50		826 50		30,758 10
					32,218 50		

# STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section	Length of section or No. of structures.	Estimated cost.	Totals.	Cost at contract prices.	Totals.
James Cochrane,.....	276	1 mile,.....	\$24,827 00		\$23,898 40	
O. Butler, Jr. & Co.,.....	do	1 culvert,.....	2,677 00		2,290 22	
L. J. Peck,.....	do	1 bridge abutment,	1,597 00		1,530 98	
E. Corning & Co.,.....	do	1 do super.,...	2,140 16		2,140 16	
				\$31,241 16		29,859 76
Jason Baker,.....	277	1 mile,.....	\$24,159 00		\$22,313 40	
James R. Thompson,.....	do	1 culvert,.....	3,963 00		3,587 00	
L. J. Peck,.....	do	2 bridge abutm'ts,	3,194 00		2,441 20	
E. Corning & Co.,.....	do	2 do super.,...	2,992 00		2,992 00	
				34,308 00		31,333 60
W. O. Bloss & Co.,.....	278	1 mile,.....	\$24,908 00		\$24,312 30	
A. Wilder,.....	do	1 culvert,.....	2,750 00		2,626 18	
do .....	do	1 bridge abutment,	1,597 00		1,284 80	
E. Corning & Co.,.....	do	1 do super.,...	1,496 00		1,496 00	
				30,751 00		29,719 18
S. Sawin & Co.,.....	279	1 mile,.....	\$24,265 00		\$22,666 20	
H. E. Storrs & Co.,.....	do	2 culverts,.....	6,105 00		6,462 41	
Butler & Stanbrough,.....	do	1 waste-weir,.....	1,110 00		1,012 85	
A. Wilder,.....	do	1 bridge abutment,	1,597 00		1,284 80	
E. Corning & Co.,.....	do	1 do super.,...	2,164 48		2,164 48	
				35,241 48		33,590 74

O. Clark,.....	280	1 mile,.....	\$38,421 00		\$37,746 20	
Gideon Hard,.....	do	1 culvert,.....	1,511 00		1,481 20	
A. Wilder,.....	do	1 bridge abutment,	1,597 00		1,284 80	
E. Corning & Co.,.....	do	1 do super.,...	1,513 00	43,042 00	1,513 00	42,025 29
E. T. Bridges & Co.,.....	281	1 mile,.....	\$35,367 00		\$30,615 40	
E. S. Reed & Co.,.....	do	1 culvert,.....	2,860 00		2,695 08	
A. Wilder,.....	do	2 bridge abutm'ts,	3,194 00		2,569 60	
E. Corning & Co.,.....	do	2 do super.,...	3,026 00	44,447 00	3,026 00	38,906 08
J. B. Mass,.....	282	1.04 mile,.....	\$34,985 00		\$29,896 80	
William Lewis & Co.,.....	do	1 culvert,.....	3,616 00		2,865 57	
W. Walker,.....	do	1 bridge abutm't,	1,280 00		1,197 50	
E. Corning & Co.,.....	do	1 do super.,...	855 00	40,736 00	855 00	34,814 87
William Candee & Co.,.....	283	0.50 mile,.....	\$16,992 00	16,992 00	\$14,491 00	14,491 00
A. P. McDonald,.....	285	0.50 mile,.....	\$22,872 00	22,872 00	\$21,737 40	21,737 40
James Breed & Co.,.....	286	1.08 mile,.....	\$29,263 00		\$27,141 40	
W. Walker,.....	do	1 bridge abutm't,	1,597 00		1,432 15	
E. Corning & Co.,.....	do	1 do super.,...	1,547 00	32,407 00	1,547 00	30,120 55
James Breed & Co.,.....	287	1.08 mile,.....	\$35,955 00		\$32,417 40	
E. S. Reed & Co.,.....	do	1 culvert,.....	6,366 00		4,960 44	
Gideon Hard,.....	do	2 bridge abutm'ts,	3,194 00		2,754 50	
E. Corning & Co.,.....	do	2 do super.,...	3,128 00	48,633 00	3,128 00	43,260 34

## STATEMENT—(CONTINUED.)

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Names of Contractors.	No. of section	Length of section or No. of section.	Estimated cost.	Totals.	Cost at contract prices.	Totals.
J. W. Britton & Co., .....	288	0.45 mile, .....	\$8,938 00		\$8,899 91	
B. Pringle, .....	do	1 culvert, .....	1,403 00		1,291 10	\$10,190 91
John H. Nichols, .....	A.B.	0.79 mile, .....	\$26,242 00		\$22,419 90	
H. Brintnall & Co., .....	do	1 bridge abutment, .....	1,597 00		1,536 30	
E. Corning & Co., .....	do	1 do superstr'e, .....	1,564 00		1,564 00	
C. J. and H. De Graw, .....	290	0.40 mile, .....	\$16,872 00		\$11,665 00	25,520 20
John Ryan & Co., .....	do	1 culvert, .....	6,314 00		5,776 00	
H. Brintnall & Co., .....	do	1 bridge abutment, .....	1,597 00		1,536 30	
E. Corning & Co., .....	do	1 do superstr'e, .....	1,564 00		1,564 00	
M. A. Harrington, .....	291	0.62 mile, .....	\$15,871 14		\$15,936 75	20,541 30
B. Pringle, .....	do	1 culvert, .....	1,316 00		1,203 10	
Butler & Stanbrough, .....	do	1 waste wejr, .....	1,110 00		994 70	
J. B. King & Co., .....	do	1 bridge abutment, .....	1,597 00		1,627 75	
E. Corning & Co., .....	do	1 do superstr'e, .....	1,564 00		1,564 00	
B. Pringle, .....	292	0.62 mile, .....	\$18,226 00		\$16,969 30	21,326 30
B. Pringle, .....	do	1 culvert, .....	2,910 00		2,624 00	
M. A. Harrington, .....	do	1 bridge abutment, .....	1,597 00		1,382 85	
E. Corning & Co., .....	do	1 do superstr'e, .....	1,564 00		1,564 00	22,540 15
				24,297 00		

John B. King & Co.,.....	293	0.62 mile, .....	\$15,899 00			\$15,832 40	
B. Pringle, .....	do	1 culvert,.....	1,474 00			1,353 30	
M. A. Harrington & Co.,...	do	1 bridge abutment,	1,280 00			1,142 00	
E. Corning & Co.,.....	do	1 do superstr'e,	883 50		19,536 50	883 50	19,211 20
H. P. Mills & Co., .....	294	0.62 mile, .....	\$18,319 00			\$17,172 70	
M. A. Harrington & Co.,...	do	2 bridge abutment,	3,194 00			2,765 70	
E. Corning & Co.,.....	do	2 do superstr'e,	3,162 00		24,675 00	3,162 00	23,100 40
H. P. Mills & Co., .....	295	0.62 mile, .....	\$15,881 00			\$14,884 70	
H. P. Mills & Co., .....	296	0.62 mile, .....	\$14,438 00		15,881 00	\$14,221 70	14,884 70
Asa D. Wood & Co., .....	do	1 culvert,.....	4,395 00			4,843 30	
M. A. Harrington & Co.,...	do	1 bridge abutment,	1,597 00			1,392 50	
E. Corning & Co., .....	do	1 do superstr'e,	2,286 08		22,716 08	2,286 08	22,723 58
H. W. Soper & Co., .....	297	0.62 mile, .....	\$13,656 00			\$14,660 50	
H. W. Soper & Co., .....	do	1 bridge abutment,	1,280 00			1,239 30	
E. Corning & Co.,.....	do	1 do superstr'e,	893 00		15,829 00	893 00	16,792 80
H. W. Soper & Co., .....	298	0.62 mile, .....	\$16,648 00			\$16,753 50	
John Ryan & Co., .....	do	1 culvert, .....	3,274 00			3,432 50	
H. W. Soper & Co., .....	do	1 bridge abutment,	1,280 00			1,239 30	
E. Corning & Co., .....	do	1 do superstr'e,	893 00		22,095 00	893 00	22,318 30
J. N. Stage, .....	299	0.62 mile, .....	13,866 00		13,866 00	\$14,098 25	14,098 25

## STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section	Length of section or No. of structures.	Estimated cost.	Totals.	Cost at contract prices.	Totals.
H. U. Soper & Co., .....	300	0.62 mile, .....	\$14,101 00		\$14,468 50	
Butler & Stanbrough, .....	do	1 culvert, .....	2,743 00		2,435 99	
do .....	do	1 waste weir, .....	1,110 00		994 70	
H. U. Soper & Co., .....	do	2 bridge abutments, .....	3,194 00		2,968 90	
E. Corning & Co., .....	do	2 do superstr's, .....	3,925 40	25,073 40	3,925 40	\$24,793 40
H. U. Soper & Co., .....	301	0.62 mile, .....	\$13,537 00		\$14,336 80	14,336 80
S. Clark & Co., .....	302	0.62 mile, .....	\$16,849 00		\$17,022 20	
H. U. Soper & Co., .....	do	1 culvert, .....	1,308 00		759 42	
J. Ellicott & Co., .....	do	1 bridge abutment, .....	1,597 00		1,569 50	
E. Corning & Co., .....	do	1 do superstr'e, .....	1,632 00	21,386 00	1,632 00	20,983 12
S. Clark & Co., .....	303	0.62 mile, .....	\$15,554 00		\$16,285 20	
J. Ellicott & Co., .....	do	1 bridge abutment, .....	1,597 00		1,569 50	
E. Corning & Co., .....	do	1 do superstr'e, .....	1,649 00	18,800 00	1,649 00	19,503 70
A. Collins, .....	304	0.62 mile, .....	\$14,892 00		\$14,495 80	
H. U. Soper & Co., .....	do	1 culvert, .....	654 00		777 92	
J. Ellicott & Co., .....	do	1 bridge abutment, .....	1,597 00		1,569 50	
E. Corning & Co., .....	do	1 do superstr'e, .....	1,666 00	18,809 00	1,666 00	18,509 22

O. Clarks, .....	305	0.70 mile, .....	\$18,629 00		\$18,097 50	
J. N. Stage, .....	do	1 culvert, .....	654 00		736 62	
J. Ellicott & Co., .....	do	1 bridge abutment, .....	1,597 00		1,569 50	
E. Corning & Co., .....	do	1 do superstr'e, .....	1,666 00	22,546 00	1,666 00	22,069 62
B. Pringle, .....	307	0.62 mile, .....	\$13,579 00		\$11,987 80	
C. A. Danolds, .....	do	1 culvert, .....	654 00	14,233 00	729 68	12,719 48
B. Pringle, .....	308	0.62 mile, .....	\$16,689 00		\$16,040 80	
C. A. Danolds, .....	do	1 culvert, .....	654 00		729 68	
John Ryan & Co., .....	do	1 bridge abutment, .....	1,280 00		1,243 10	
E. Corning & Co., .....	do	1 do superstr'e, .....	940 50	19,563 50	940 50	18,954 08
B. Pringle, .....	309	0.62 mile, .....	\$15,167 00		\$14,358 80	
C. A. Danolds, .....	do	1 culvert, .....	654 00		729 68	
J. Ryan & Co., .....	do	1 bridge abutment, .....	1,597 00		1,507 16	
E. Corning & Co., .....	do	1 do superstr'e, .....	2,407 68	19,825 68	2,407 68	19,003 31
B. Pringle, .....	310	0.49 mile, .....	\$11,310 00		\$10,677 60	
W. P. Collins, .....				11,310 00		10,677 60
O. Butler, Jr. & Co., .....	311	0.80 mile, .....	\$25,469 00		\$22,070 60	
J. Ryan & Co., .....	do	2 culverts, .....	4,959 00		5,438 52	
J. M. K. Hilton, .....	do	1 bridge abutment, .....	1,597 00		1,507 15	
E. Corning & Co., .....	do	1 waste weir, ....	1,110 00		1,021 70	
	do	1 bridge superstr'e, .....	2,432 00	33,567 00	2,432 00	32,464 27



# STATEMENT—(CONTINUED.)

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[Assembly

NAMES OF CONTRACTORS.	No. of section	Length of section or No. of structure.	Estimated cost.	Totals.	Cost at contract prices.	Totals.
David Hunter & Co., .....	312	0.62 mile, .....	\$13,634 00		\$12,540 00	
S. Kneeland & Co., .....	do	1 culvert, .....	654 00		733 68	
J. Ryan & Co., .....	do	1 bridge abutment,	1,280 00		1,243 10	
E. Corning & Co., .....	do	1 do superstr'e,	950 00	\$16,518 00	950 00	\$15,466 78
B. Pringle, .....	313	0.62 mile, .....	\$15,915 00		\$13,918 80	
S. Kneeland, .....	do	1 culvert, .....	654 00		733 68	
J. Ryan & Co., .....	do	2 bridge abutm'ts,	2,877 00		2,750 25	
E. Corning & Co., .....	do	2 do superstr's,	2,676 50	22,122 50	2,676 50	20,079 23
C. A. Danolds, .....	314	0.62 mile, .....	\$18,990 00		\$18,288 60	
S. Kneeland, .....	do	1 culvert, .....	900 00		969 22	
C. A. Donalds, .....	do	1 bridge abutment,	2,572 00		2,131 20	
E. Corning & Co., .....	do	1 do superstr'e,	1,751 00	24,213 00	1,751 00	23,140 02
M. E. Hitchcock, .....	315	0.42 mile, .....	\$9,609 00	9,609 00	\$7,985 10	7,985 10
				\$3,894,482 76		\$3,514,979 85

## TABULAR STATEMENT

*Of work let December 29th, 1851, on the second sub-division of the Western division of the Enlargement of the Erie canal, showing the length of Sections, number of Structures, estimated cost and cost at contract prices.*

*Second sub-division—JOHN LATHROP, Resident Engineer.*

NAMES OF CONTRACTORS.	No. of section.	Length of section or No. of structure.	Engineer's estimate.	Totals.	Estimated cost at contract prices.	Totals.
Isaac N. Stage, .....	316	1 mile, .....	\$28,110 00		\$24,770 00	
Hawley & Barton, .....	do	1 bridge abutment,	2,180 00		1,885 00	
Otis Turner, .....	do	2 culverts, .....	5,620 00		4,356 50	
E. Corning & Co., .....	do	1 bridge superstr'e,	1,500 00	\$37,410 00	1,512 00	32,523 50
Isaac N. Stage, .....	317	0.88 mile, .....	\$26,530 00		\$24,215 00	
do .....	do	1 culvert, .....	1,436 00		1,059 00	
Barton & O'Maley, .....	318	1.12 miles, .....	\$40,940 00	27,966 00	\$37,420 00	26,274 00
do .....	do	3 culverts, .....	17,588 00		15,199 00	
Samuel C. Holden, .....	319	1 mile, .....	\$37,340 00	58,528 00	\$34,760 00	52,619 00
Hawley & Barton, .....	do	2 bridge abutm'ts,	3,860 00		3,280 00	
S. Parmelee & Co., .....	do	2 culverts, .....	5,382 00		4,267 50	
E. Corning & Co., .....	do	2 bridge superstr's,	2,000 00		1,680 00	
Horatio N. Hewes, .....	320	0.58 mile, .....	\$47,780 00	48,582 00	\$37,430 00	43,987 50
Hawley & Barton, .....	do	1 bridge abutment,	1,930 00		1,665 00	
E. Corning & Co., .....	do	1 do superstr'e,	1,000 00	50,710 00	940 00	39,936 00

## STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section.	Length of section or No. of structure.	Engineer's estimate.	Total.	Cost at contract prices.	Total.
E. Corning & Co., .....	321	1 bridge superstr'e,	\$2,000 00	\$2,000 00	\$3,360 00	\$3,360 00
Thompson & Nelson, .....	322	1.42 miles, .....	40,300 00		37,946 00	
Sutton & Phillips, .....	do	2 bridge abutm'ts,	3,860 00		3,300 00	
S. Parmelee & Co., .....	do	1 culvert, .....	2,812 09		2,695 00	
E. Corning & Co., .....	do	2 bridge superstr's,	2,000 00		1,680 00	
White & Parmelee, .....	323	1 mile, .....	29,150 00	48,972 00	27,426 00	45,621 00
Sutton & Phillips, .....	do	1 bridge abutm't,	2,206 00		1,909 00	
Thomas King, .....	do	1 culvert, .....	4,320 00		4,120 00	
E. Corning & Co., .....	do	1 bridge superstr'e,	1,500 00		1,596 00	
Chamberlain & Edgerton, ..	324	1 mile, .....	29,850 00	37,176 00	27,640 00	35,051 00
Sutton & Phillips, .....	do	2 bridge abutm'ts,	4,136 00		3,534 00	
E. Corning & Co., .....	do	1 do superstr'e,	2,500 00		2,520 00	
Ryan & Swan, .....	325	1 mile, .....	27,690 00	36,486 00	27,480 00	33,694 00
Isaac N. Stage, .....	326	1 mile, .....	33,810 00	27,690 00	30,140 00	27,480 00
Hawley & Barton, .....	do	2 bridge abutm'ts,	5,028 00		4,256 00	
Thomas King, .....	do	2 culverts, .....	8,200 00		7,350 00	
E. Corning & Co., .....	do	2 bridge superstr's,	3,500 00	50,538 00	3,780 00	45,526 00

Ryan & Swan, .....	327	1 mile, .....	\$28,560 00	\$28,290 00	
Hawley & Barton, .....	do	1 bridge abutment,	1,930 00	1,665 00	
Thomas King, .....	do	1 culvert, .....	3,600 00	3,350 00	
E. Corning & Co., .....	do	1 bridge superstr'e,	1,000 00	840 00	34,145 00
Orville Clark, .....	328	1 mile, .....	\$35,640 00	\$31,790 00	
Hawley & Barton, .....	329	1 mile, .....	\$30,640 00	\$28,550 00	
N. W. Baldwin, .....	do	2 bridge abutm'ts,	4,436 00	3,194 30	
S. Parmelee & Co., .....	do	2 culverts, .....	6,388 00	5,903 75	
E. Corning & Co., .....	do	2 bridge superstr'e,	2,500 00	2,352 00	40,000 05
John P. Smith, .....	330	1 mile, .....	\$38,125 00	\$37,520 00	
Hilton & Terry, .....	do	1 waste weir, .....	1,080 00	1,307 00	
Hawley & Barton, .....	do	2 bridge abutm'ts,	3,860 00	3,280 00	
H. N. Hewes, .....	do	1 culvert, .....	4,360 00	4,283 80	
E. Corning & Co., .....	do	2 bridge superstr's,	2,000 00	1,680 00	48,070 80
George H. Boughton & Co., ..	331	1 mile, .....	\$32,270 00	\$28,090 00	
Hilton & Terry, .....	do	1 bridge abutment,	2,206 00	1,963 00	
Hawley & Barton, .....	do	1 culvert, .....	1,434 00	1,282 00	
E. Corning & Co., .....	do	1 bridge superstr'e,	1,500 00	1,512 00	32,847 00
Gideon Hard, .....	332	1 mile, .....	\$35,730 00	\$31,575 00	
Hilton & Terry, .....	do	1 bridge abutment,	2,206 00	1,963 00	
Gideon Hard, .....	do	1 culvert, .....	2,568 00	1,866 00	
E. Corning & Co., .....	do	1 bridge superstr'e,	1,500 00	1,512 00	36,906 00
				42,004 00	

# STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.		No. of section.	Length of section or No. of structures.	Engineers' estimate.	Totals.	Cost at contract prices.	Totals.
Nathan G. King & Co., ....	333	1 mile, .....	\$46,880 00		\$47,270 00		
S. Parmelee & Co., .....	do	2 culverts, .....	5,500 00		4,510 75		\$51,780 75
Geo. Reynale & Co., .....	334	1 mile, .....	43,125 00		37,046 00		
S. Pierce & Co., .....	do	2 bridge abutm'ts, ..	4,136 00		3,479 00		
do .....	do	2 culverts, .....	4,366 00		4,009 00		
E. Corning & Co., .....	do	2 bridge superstr's,	2,500 00		1,680 00		
Thomas King, .....	335	1 mile, .....	33,295 00		31,950 00		46,214 00
S. Pierce & Co., .....	do	2 bridge abutm'ts, ..	3,860 00		3,245 00		
Hawley & Barton, .....	do	2 culverts, .....	2,508 00		2,094 00		
E. Corning & Co., .....	do	2 bridge superstr's,	2,000 00		2,352 00		
Hawley & Barton, .....	336	1 mile, .....	\$28,280 00		25,820 00		39,641 00
Chamberlain & Bradley, ...	do	2 bridge abutm'ts, ..	4,396 00		3,707 00		
S. Parmelee & Co., .....	do	1 culvert, .....	2,568 00		1,725 00		
E. Corning & Co., .....	do	2 bridge superstr's,	3,500 00		3,024 00		
W. L. & H. W. Lewis, .....	337	3-4 mile, .....	4,650 00		3,560 00		34,276 00
B. & J. Carpenter, .....	do	1 waste weir, .....	300 00		340 00		
E. Corning & Co., .....							3,900 00
Mountain ridge, .....	7	1 bridge superstr'e,	1,500 00		1,920 00		1,920 00

E. Corning & Co., Mountain ridge, .....	8	1	do	1,500 00	1,500 00	1,920 00	1,920 00
E. Corning & Co., Mountain ridge, .....	14	2	do	3,000 00	3,000 00	4,056 00	4,056 00
Chauncey Joslin, .....	348 to 353	6 miles, .....		53,340 00		40,990 00	
Henry S. Wells, .....	do	Bridge ab. & culv.		3,920 00		4,120 00	
Oswald & Buell, .....	354 to 359	5½ miles, .....		47,640 00		35,760 00	
Henry S. Wells, .....	do	Bridge abs. & culvs.		1,520 00		1,720 00	
John McCabe & Co., .....	360	1 mile, .....		39,510 00		38,540 00	
Alanson Webster, .....	do	1 waste weir, .....		1,450 00		1,527 00	
Clark & Tift, .....	do	1 bridge abutment,		1,930 00		1,797 50	
S. Parmelee & Co., .....	do	2 culverts, .....		7,100 00		4,717 50	
E. Corning & Co., .....	do	1 bridge superstr'e,		500 00		700 00	
Jacob Hinds, .....	361	1 mile, .....		84,960 00	50,490 00	73,550 00	47,212 00
Clark & Tift, .....	do	1 bridge abutment,		1,930 00		1,727 50	
E. Corning & Co., .....	do	1 do superstr'e,		1,000 00		840 00	
Theodore D. Barton, .....	362	1 mile, .....		78,000 00	87,890 00	68,140 00	75,117 50
Clark & Tift, .....	do	1 bridge abutment,		1,930 00		1,727 50	
S. Parmelee & Co., .....	do	1 culvert, .....		3,108 00		1,936 25	
E. Corning & Co., .....	do	1 bridge superstr'e,		1,000 00	84,038 00	840 00	72,643 75

## STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section.	Length of section or No. of structures.	Engineer's estimate.	Totals.	Cost at contract prices.	Totals.
Oswald & Buell,.....	363	1 mile,.....	\$40,960 00		\$35,340 00	
Clark & Tift,.....	do	1 bridge abutment,	1,930 00		1,727 50	
E. Corning & Co.,.....	do	1 do superstr'e,	1,000 00	\$43,990 00	840 00	\$37,907 50
Martindale & Ferrell,.....	364	1 mile,.....	37,328 00		32,020 00	
Clark & Tift,.....	do	1 bridge abutment,	1,930 00		1,727 50	
E. Corning & Co.,.....	do	1 do superstr'e,	1,000 00	40,258 00	840 00	34,587 50
George Lanman,.....	365	1 mile,.....	37,240 00		36,230 00	
Clark & Tift,.....	do	1 bridge abutment,	1,930 00		1,727 50	
E. Corning & Co.,.....	do	1 do superstr'e,	1,000 00	40,170 00	840 00	38,797 50
Williams & Palmeto,.....	366	1 mile,.....	75,640 00		69,400 00	
Clark & Tift,.....	367	94.100 mile,.....	60,140 00	75,640 00	54,590 00	69,400 00
Henry S. Wells,.....	do	1 culvert,.....	7,020 00	67,160 00	5,790 00	60,380 00
Lock section and guard-lock at Black Rock, Sutton & Phillips, contract's,	{ ..... ..... .....}	{ ..... 1-8 mile,..... 1 lock,.....}	26,730 00	26,730 00	23,340 00	23,340 00

Sutton & Phillips, .....	368	99.100 mile, .....	23,520 00	18,160 00	
Clark & Tift, .....	do	1 bridge abutment,	2,206 00	1,957 50	
E. Corning & Co., .....	do	1 do superstr'e,	1,500 00	1,512 00	21,629 50
				27,226 00	
Wood & Clark, .....	369	1 mile, .....	34,520 00	32,000 00	
Clark & Tift, .....	do	1 bridge abutment,	2,206 00	1,957 50	
E. Corning & Co., .....	do	1 do superstr'e,	1,500 00	1,428 00	35,385 50
				38,226 00	
Ball & Barton, .....	370	57.100 mile, .....	63,320 00	55,890 00	
Clark & Tift, .....	do	1 bridge abutment,	1,930 00	1,727 50	
E. Corning & Co., .....	do	1 do superstr'e,	1,000 00	840 00	
Wood & Seymour, .....	....	Valve gates for 2 locks, .....	2,000 00	1,618 98	53,457 50
				2,000 00	1,618 98
				\$1,623,833 00	\$1,451,594 83



## ENLARGEMENT OF THE ERIE CANAL.

## ABSTRACT

*Of the preceding detailed estimates of work let Dec. 29th, 1851.*

WORK.	Miles in length or No. of structures.	Engineers' esti- mate.	Cost at contract prices.
Sections,.....	121.92	\$4,558,777 14	\$4,105,446 40
Locks, valves, &c.,.....	5	117,516 00	109,864 36
Culverts,.....	109	328,103 00	273,601 45
Aqueducts,.....	2	47,464 00	37,701 35
Waste weirs,.....	15	16,438 60	15,230 27
Bridge superstructures, &c.	150	550,017 62	424,730 35
		<u>\$5,518,315 76</u>	<u>\$4,966,574 18</u>

*The following table shows the number and length of sections, and kind of mechanical structures on the Western division of the enlargement of the Erie canal, and the present condition of the same January 24th, 1852.*

SECTIONS AND STRUCTURES.	No.	Length in miles.	Miles or number completed.	Miles or number partly completed.	Miles or number recently contracted.
Sections,.....	168	143.41	7.66	12.89	121.92
Ship locks,.....	1	.....	.....	1	
Double do .....	5	.....	5		
Single do .....	14	.....	9	2	3
Guard do .....	2	.....	.....	1	1
Weigh do .....	1	.....	1		
Aqueducts,.....	5	.....	2	1	2
Culverts,.....	120	.....	9	2	109
Waste weirs,.....	16	.....	.....	1	15
Bridges,.....	81	.....	37	6	38
Road bridges of iron, ....	87	.....	6	0	81
Farm do do ....	32	.....	0	0	32
Erie basin slips,.....	.....	.....	.....	1	
Ohio do .....	.....	.....	1		
do do slips,.....	.....	.....	1		

## GENESEE VALLEY CANAL.

STATEMENT showing the length of sections, kind and number of structures, and their present condition Jan. 1st, 1852.

SECTIONS AND KIND OF STRUCTURES.	Length of section and No. of structures.				
	Total num-ber.	Complete.	Commenced & not complete.	Not comm'ed, let in 1850.	Not comm'ed, let in 1851.
<i>Complete in 1840.</i>					
Sections, miles, .....	52	52	.....	.....	
Locks, lift, .....	19	19	.....	.....	
guard, .....	2	2	.....	.....	
Aqueducts, .....	8	8	.....	.....	
Culverts, .....	57	57	.....	.....	
Waste weirs, .....	16	16	.....	.....	
Dams, .....	5	5	.....	.....	
Bridges, road, .....	38	38	.....	.....	
towing path, .....	3	3	.....	.....	
farm, .....	65	65	.....	.....	
Lock houses, .....	13	13	.....	.....	
<i>Commenced or resumed since 1847.</i>					
Sections, miles, .....	66	35	13	15	3
Feeders, do .....	3 $\frac{1}{2}$	3 $\frac{1}{2}$	.....	.....	2 $\frac{3}{4}$
Locks, lift, .....	96	61	20	13	2
guard, .....	1	1	.....	.....	
Aqueducts, .....	9	7	1	.....	1
Culverts, .....	29	14	.....	12	3
Waste weirs, .....	15	10	.....	5	
Dam and bulkhead, .....	1	1	.....	.....	
Reservoirs, .....	2	.....	.....	.....	2
Bridges, road, .....	52	33	.....	16	3
towing-path and road, .....	5	3	.....	2	
do do farm, .....	1	1	.....	.....	
farm, .....	52	32	.....	20	
foot, .....	1	1	.....	.....	

## ENLARGEMENT OF ERIE CANAL.

*Western Division.*

The western division of the Erie canal extends from the east line of Wayne county to the city of Buffalo, and is 155 miles in length on the present line, including the Hamburg canal, slips &c., at Buffalo. All the work on this division is now under contract, and is to be completed for navigation as per terms of contract, April 1st, 1854.

*Line shortened.*

Important improvements have been made in the location of the enlargement between these points, by which a saving in distance of 11 miles has been effected. The principal improvements in the locations have been made by the adoption of independent lines east and west of the village of Lyons, between Macedon and Rochester, and at Holley. The advantages secured to the people by diminishing the distance, are immense.

In 1850, there were 20,300 lockages at the first lock east of Rochester. The enlarged boats will have an average capacity of 224 tons. Should the down freight, as on the old canal, be to the up freight as 4 to 1, the average load both ways would be equal to 140 tons.

The annual saving in cost of transportation secured by the decrease of distance is equal to the expense of moving 2,300 boat loads of 140 tons each, over eleven miles. This estimate contemplates no more lockages in 1854, when the enlargement is completed, than were made in 1853.

We have then the following statement :

20,300 loads of 140 tons each, = 2,842,000 tons, moved over eleven miles, or 31,262,000 tons moved over one mile.

In the State Engineer and Surveyor's report to the Legislature in 1851, the estimated cost of transport on the enlarged canal, including tolls, is put down at seven mills per ton per mile. Taking this as the cost of movement per ton, and 31,262,000 tons

$\times 7$  mills, gives as the actual annual saving in cost of transportation, the sum of..... \$218,834 00

The average annual cost of repairs per mile on the

Erie and Champlain canals, from 1826 to 1850, is

\$746,  $\times 11$  miles, gives annual saving in repairs, 8,206 60

Total annual saving in cost of transportation and repairs, by shortening 11 miles,..... \$227,040 00

The cost of enlargement on the several new routes adopted, will not probably exceed the cost of enlargement on the line of the old canal, by the sum of \$500,000.

The amount thus annually saved by the improvements in question, will pay an interest of 7 per cent. on the sum of \$3,243,428, and will be equivalent to a reduction of tolls on the present tariff of prices on the Erie canal, of near 13 per cent. every three years, a saving in the cost of transportation alone will be secured, greater in amount than the difference of cost between the enlargement on the old and independent lines.

Every improvement that tends to cheapen the cost of transportation, through our channels of trade, is of general interest to the present and future prosperity of the State, and will do something towards securing for the Erie canal the trade of the great west, now vigorously contended for by other and rival routes.

When the last annual report was submitted, the following works on the western division had been completed or were then under contract, viz: Sections 212, 219, 225, 226, 227, 231, a section through Palmyra, (all in Wayne county,) and sections 1 and 2, east of Rochester; also weigh lock and house, and work connected therewith, extension of change bridge, and sections through Brockport, Albion, and Medina, and sections 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14, through "Mountain Ridge," at Lockport, and sections 1 and 2 in the city of Buffalo. Also locks at Clyde and Berlin, and lock 59 west of Lyons, lock 61 at Lockville, and 3 locks east of Rochester, with valve gates for same, guard lock at Sulphur Springs, and ship lock at Black Rock. Also waste weir on section 212, Mud Creek aqueduct at Lyons, and aqueduct at Medina, Melvin Brook culvert, at Clyde, and

composite culverts on 226 and 227. Also culverts at Brockport, and bridges on section 226, bridges at Lockville and Palmyra, and one culvert; also bridges on Monroe, Smith, Alexander and Allen streets, at Rochester, and at Brockport, Albion, Medina, Lockport, and at Buffalo. Also the Main and Hamburg-street canal, the Erie basin and slips, the Ohio basin, and the swing bridge at the Ohio basin.

Among the first work put under contract on this division after the act authorizing the enlargement was passed in 1835, was the Rochester aqueduct, one lock at Lyons, two at Lockville, one single and one double lock at Macedon. Subsequently Mud creek aqueduct, with section, culverts and bridges at Lyons, Lockville, Macedon and Rochester.

Most of these works were completed previous to the suspension in 1842.

In the fall of 1847, sections 225, 226 and 227, with culverts and bridges located thereon, and locks 59 and 66, and Mud creek aqueduct, all between Lyons and Newark, were resumed under new and old contracts. These, together with part of a section at Clyde, a section, bridges and culvert at Palmyra, with section and locks Nos. 1 and 2, east of Rochester, were completed or nearly so, and brought into use last spring.

A new weigh lock at Rochester with weigh house and scale, and offices for collector, weigh master and engineers, has been completed and in use since 1850. The lock gates are opened and closed by water power, and with great ease and dispatch. It is believed that this lock is unsurpassed in the perfection of its parts by any similar work in the State.

The weigh scales were manufactured by Messrs. Duryee & Forsyth, and are a specimen work of great power, merit and accuracy. They can weigh a burden of 400 tons without endangering their safety. 280 boats can easily be weighed every 24 hours. Additional facilities to expedite the weighing of boats may be secured at this lock, by removing the change bridge some 20 rods towards the aqueduct. This would allow boatmen to tow their boats directly into the lock which the bridge now prevents.

*Sections.*

At the date of the last annual report of the State Engineer and Surveyor, the following section work had been nearly completed and brought into use on the enlargement on the western division, viz :

Section No. 225, near Lyons,

do 226, do

do 227, do

do at Lockville,

do at Palmyra,

do at Macedon,

do No. 1, at Rochester,

do 2, do

do 3, do

do 5, through mountain ridge at Lockport,

do 1 and 2, in the city of Buffalo.

At the same time the following sections had been put under contract, and were in progress of construction, viz :

Part of section 212, at Clyde,

do 219, at Lyons,

do 231, at Newark,

do 1 and 2, east of Rochester,

do at Brockport,

do at Albion, section at Medina, and sections 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14, through the "mountain ridge" at Lockport, the Main and Hamburg street canal, the Erie basin and slips, and the Ohio basin.

Important improvements have been made in the line of canal at various places.

Section 212 at Clyde, let to Rogers & Layton, was so far completed as to be used during the last seasons of navigation. The Clyde river, subject to extreme and sudden freshets, runs contiguous thereto its whole length. This section was flooded several times during the last winter and spring, which added greatly to the cost of construction. It will be completed for navigation early in the spring.

The sections, through the villages of Lyons and Newark, could be completed in the spring if the bridge contracts did not prevent. The section through Palmyra is finished, and is a work of great durability.

The independent line between Macedon & Brighton diverges from the old line of canal, three chains west of the Macedon change bridge, and passes nearly through the centre of Macedon or Perrinton swamp to Fairport. From thence it takes nearly a direct course to Brighton, and saves  $8\frac{1}{4}$  miles distance from the present line.

The swamp sections lie considerably below the surface of water in the old canal, and will be expensive to drain on that account. The water in the old canal acts under a head and percolates freely through the soil. On filling the canal in the spring, the swamp is also filled. It is therefore believed that steam excavators can be profitably employed on this work.

Objections have been urged to the new line in question on account of the heavy embankments required. It is not probably known to those who regard the new as more dangerous than the old location, that the new line has less length of high embankment than the old. On the old canal there are about 2,200 feet of embankment raised from 60 to 75 feet above the adjacent flats, while on the new there are less than 500 feet of equal or greater height.

Few breaks have ever occurred on those portions of the canal where the banks are not attached to the natural hills.

The plan of protecting the banks and prism with timber and sheet pile docking, will obviate to a great extent the liabilities to failure throughout the heavy portions of the new canal. Muskrats and crabs, that have caused and do cause the principal failures in embankments, cannot enter the banks below the surface of the water, if at all. The finish contemplated will be such as to effectually remove this cause of danger.

The liabilities of the new canal, when completed from Fairport to Brighton, it is confidently believed will not be greater per mile than on the old line.

Sections 1 and 2 at Rochester, together with sections at Brockport, Albion and Medina will be nearly completed and ready for use on the opening of navigation. Sand-stone rock is found on about one half of the Medina section. Slope wall instead of docking will be required where the rock occurs.

Sections 5 to 14, inclusive, through the mountain ridge at Lockport, have progressed slowly the past season. The early completion of these sections, is important for the purpose of supplying water on the eastern part of the division. Additional force will be required to ensure completion by the spring of 1853. The business of the canal requires that these sections be finished as early as that time.

Sections Nos. 3 and 4, at Buffalo, now answering to 370 as let, should be immediately enlarged. The channel is so narrow that a very strong current is driven through it when the wind is blowing down the lake, so powerful as to make it necessary at times to double teams to tow loaded boats up.

I understand the contractors for the new work entered upon it the first of January, and intend to complete the widening before the opening of navigation. This will prove of great benefit to the canal.

There are a good many points throughout the western division where the canal is narrow, and where aquatic grasses abound to such an extent as to materially arrest the flow of water during the dry season when water is most needed. It is therefore recommended that the work of enlargement be commenced at once at such places as will facilitate the business of the canal most. Many such localities are found between Rochester and Lockport.

The dredging of Black Rock harbor should be commenced early and so carried forward as to enlarge at the earliest moment the volume of flow down the canal. The demand for more water than could be passed into the canal below the mills during the dry season of last year, was imperious. This work should not therefore be delayed. It is the only effectual way to prevent the delays to navigation annually experienced for want of water on the levels between Black Rock and Montezuma.



When the enlargement levels are in use, it is to be feared that some of the railroad bridges over the canal in the city of Rochester will require to be raised. At least 12 feet elevation will be required above the water to pass the enlarged boats, and avoid a class of casualties now too frequent on the canal.

When our estimates were made, the hard-pan and quick-sand classification was not contemplated. The restoration of these items by the Canal Board will enhance the cost of the work.

### *Locks.*

There are 21 lift locks on the western division. Fifteen are already enlarged and in use, and four remain to be constructed.

Pit lock, the most eastern, will be abandoned when the new line across the Montezuma marshes comes into use. The Clyde lock is enlarged, and came into use in the spring of 1851. The location is 90 chains west from the old lock in the village of Clyde.

Lock Berlin is located on an independent line of canal from Berlin to Lyons, and cannot be used before the spring of 1854. The Lyons lock was one of the first enlarged, and was completed previous to 1842. Lock 59 between Lyons and Lockville was commenced and the lower courses laid before the suspension in 1842. It was completed and brought into use in the spring of 1849. Lock 61 at Lockville was contracted in 1847 and completed for use in 1849. Locks 60 and 62 at the same place, and the Macedon locks were enlarged before the suspension. Double enlarged locks were constructed in place of the upper lock at Macedon.

The adoption of the independent line from Macedon to Brighton, will require a change in the location of this lock. This, with the Pittsford and lower Brighton locks, will be located on the independent line between Brighton village and Allen's creek.

In place of the five old locks at Brighton, the descent is overcome by four enlarged locks. Three of these will be in use on the opening of navigation.

The locks on the said Independent line cannot be brought into use until the enlargement is completed.

One sett of the combined locks at Lockport were completed before the suspension. The south sett were let and completed soon after the resumption.

The original aggregate lift of the 5 old locks, was 55 feet. The new locks containing about 25,000 cubic yards of cement masonry, present one of the most imposing views on the whole canal, and impresses the beholder more forcibly than any other work on its line with the wisdom and boldness of the original projectors.

The new enlarged guard lock at Sulphur Springs has been in use since 1849. The freshets in the Tonawanda creek, with which the canal connects, rendered this work indispensable.

A series of discharge gates have been put into the Tonawanda dam, by which the freshets of the creek are partially controlled, so that the injury to the towing path on its border, formerly caused by the sudden rise of the stream is now avoided except in extreme floods. The capacity of these discharge gates has been ascertained since the last annual report, and found to be great enough to justify the abandonment of the guard lock at that place.

It has also been ascertained that since these gates were put in, no necessity has existed requiring the gates of the guard lock to be closed. It is not proposed to reconstruct this lock.

An additional waste weir, with one hundred feet waste, located near the culvert west of the village is under contract, and will provide for the easy and safe discharge of any surplus flow from the creek up the canal.

The old guard lock at Black Rock, with some repairs, will endure until the new one is completed.

The masonry of the ship lock at Black Rock, commenced previous to 1842, is completed, except a few pieces of the coping.

Heavy dredging above and below remains to be done before the lock can come into use.

It is important that this work be commenced immediately, in order to have the benefit of the new lock the coming season. The old one is in a dilapidated condition, and cannot safely be relied upon for another years' service.

The guard lock near the south end of the Genesee River feeder at Rochester, is to be taken up and relaid near the junction of said feeder with the Erie Canal.

This lock was originally constructed at the head of the feeder, and was required to both protect the canal from floods, and keep open a navigable communication with the river. It was rebuilt just at the time when the lower part of the Genesee Valley canal was completed, and some years before the new aqueduct at Rochester was finished. A dam was constructed across the Genesee river, simultaneous with the Genesee Valley canal, a little below the guard lock in question.

The early completion of these works, was with a view to provide against a serious interruption to navigation, anticipated by the failure of the old aqueduct across the river before the new one could be completed.

The dam above mentioned set the water of the river back as far as Black Creek, so as to flood the low grounds up its valleys, and induce, as the citizens believed, a sickness, not before known.

The impression became general, and soon after the new aqueduct was completed, the said dam, regarded as a nuisance, was torn down by the sheriff of the county.

Then it became necessary, in order to make the feeder available to extend it up the river about one-third of a mile, and construct a permanent bulk head of cement masonry to control the freshets, as before.

The guard lock from that time has been entirely useless in its present position.

When the canal is enlarged, the surface level of the water from Lockport to the first lock east of Rochester will be raised about eighteen inches.

This will prevent the use of the said feeder except as an important auxilliary in filling the canal, or in maintaining navigation east of Rochester, when by any cause, it is suspended west of that city.

Its continuance is therefore deemed indispensable to the business of the canal, as also to accommodate the interests created by and built up along its borders.

During the dry season, for several years past, when the river was too low to feed into the canal, the waters of the feeder became impure and stagnant, and proved a great nuisance to the health and lives of the inhabitants in that part of the city.

Repeated petitions have been sent to the Canal Board, to abate in some way the nuisance, and remove the evil. Distinguished medical men agree that the great prevalence of disease and mortality along its borders, for several years past, is mainly attributable to this cause.

The removal of the lock, in question, it is believed, will restore the usual health to this part of the city.

The lock will prevent the waters of the canal from setting up the feeder and becoming stagnant as before, and will allow the waters of the river to pass freely down at all times and flow over a waste south of the lock, into the river.

A lock tender is now an indispensable adjunct and must be constantly employed to regulate the flow and control the gates. When the change is effected the feeding can be regulated by officers at the weigh lock, and without extra cost to the State.

When the enlargement is completed this can only be made available as a constant feeder by extending it through the low grounds south of Jefferson street to the level below the first lock.

Surveys and estimates of the cost of this extension were submitted to the Canal Board, previous to the new location of the

canal and locks east of Rochester. The practicability of the extension was considered by the Board, when the said Brighton locks were located, and its construction would be important to business of Rochester in maintaining the navigation east of that city when a failure occurs west.

A dam thrown across the canal west of the G. V. canal would provide for maintaining the enlargement depth in the city, to the first lock, while this feeder, entering below the lock would maintain the levels east.

### *Bridges.*

The estimates for the enlargement on the western division were chiefly made on the plan of constructing wooden bridges, with chain chords after my plan, with the *farm bridges* resting on timber supports, instead of abutments of masonry; the estimates provided for the Paynizing of the timber. Several plans of wood and iron bridges were presented for the consideration and adoption of the Canal Board previous to the letting. After an examination of their respective merits the Board concluded to invite propositions on all of them. After a canvass of said propositions, it was determined as the true economy, to construct bridges of iron chiefly through the cities and villages, and on the public highways in all cases, with both the iron and wood structures resting on stone abutments instead of timber bents. The cost of construction will therefore exceed the estimate.

N. J. Beach & Whipple's plans I regard as beautiful structures, and very perfect in the combination of their parts. These structures will have great durability and cannot fail to add much to the comfort and neatness of the enlargement finish, through cities and villages on the line.

By the use of iron bridges the road way can be let down 15 to 18 inches lower than in wood structures. The ascent is much more easily overcome, as the embankments are correspondingly lowered, while heavy damages are saved.

The height of the ordinary wood bridge landings in villages have caused damages in some instances, in amount quite equal to the cost of an iron bridge.

*Aqueducts.*

There are five aqueducts on the western division. Three remain to be completed, viz: One over Mud creek at Palmyra; one over the railroad at Brighton, and one over the Oak Orchard creek at Medina. The latter was commenced last spring and is to be built under the arch of the old one. The foundation is in and the masonry raised from 8 to 10 feet in height. The centering is up and two courses of the arch stone laid on either side, and a large quantity of stone dressed and prepared for use early in the spring. It can be completed by mid-summer.

*Culverts.*

There are 120 culverts on this division; 9 have been enlarged and 109 recently put under contract.

The Melvin brook culvert has double arches of six feet chord each, and is situate one mile west from Clyde. It was completed for use last spring. It is sustained on bearing piles. Its location is in the marsh near the junction of the brook with the Clyde river.

The unusual number of freshets on the streams during the winter and spring of 1851, greatly embarrassed this and other works in the vicinity. Much credit is due the contractor, Robert S. Nellis, Esq., for crowding this work to an early completion. The masonry and embankments were put in and the work got into navigable use by night and day labor, and in less than three weeks preceding the opening of the canal. It is a well made and permanent work.

The road culverts at Fish creek valley, and the culverts at 18 mile creek, among the largest to be built west of Rochester, and several of the smaller culverts can be mostly constructed during the summer months, and without interfering with the navigation.

The Irondequoit, Allen's creek and other culverts on the independent line between Macedon and Brighton, should be commenced without delay. The first two named are heavy structures and cannot be delayed without greatly embarrassing other work.

*Waste weirs.*

Safety to the enlarged canal, requires that the waste weirs be increased in number, and have much more ample wastes than the old ones. This only will ensure uniformity to the levels, and obviate the liability to which the old canal has always been exposed.

**Few of the enlarged waste weirs have been constructed.**

*Erie basin and breakwater.*

The rapid increase of commerce at Buffalo for several years past, has shown the necessity of enlarged commercial facilities, for canal boats at that place. The transshipment of freight during the pressure of the business season, with safety and dispatch to the navigation, long since demanded at the hands of the State a work commensurate, to meet the wants of this growing trade.

The Erie basin and the three slips connecting it with the canal, will, when completed, do this, and prevent the jams, and loss of property now so frequent, and give the required facilities to the growing business of the canals. The pier, or breakwater, is 50 feet wide, and 2,100 feet in length, and has such relative location with the government works, as to effectually and safely harbor boats during the severest storms of the lake.

The dimensions of the sea wall have been increased by the Canal Board, since the last annual report. The wall laid in 1850, was found inadequate to withstand the force of the waves. About 300 yards was swept from its foundation by the violence of the great storm in March last.

The masonry laid during the past year is more massive in character, and it is believed, when finished, will withstand in safety, the storms of the lake to which it is exposed.

A continuous row of heavy piles driven close together, encompass the breakwater. Within them on the basin side, cribs of timber 20 feet long, filled with stone, and resting side by side, form the foundation of the sea wall, which is to be carried up 14 feet above the water. The space between the cribs and the

piles on the sea side, is filled with loose stone, and to be carried up on a regular slope to the top of said wall, and to be secured with a Scotch coping. The outside piles are to be sustained from being pressed over, by a continuous crib-work on the sea side, which will also prove a protection to the pier in storms, by breaking the violence of the waves.

Some provisions will be required to prevent the entire destruction to boats, that may be driven on to the breakwater, while attempting to make the harbor. Several boats and cargoes have been wrecked the past year on this work.

A row of heavy piles, driven outside the cribs, extending 10 to 15 feet above the water, would perhaps form the best protection to shipping, in such emergencies.

The annual destruction of property and life, can hardly be avoided at this place.

Before the breakwater was commenced vessels failing to make the harbor, were driven on to the sandy beach, and rarely with injury or loss of cargo or life. An adequate protection outside the breakwater is therefore earnestly recommended.

About one-third of the masonry in the breakwater was laid the last year, and a large amount of material provided for the coming season. New dredges have been purchased, and preparation made for completing the work the present year.

One of the slips is completed, and one nearly excavated. The dredging of the basin has been commenced. The cost of this work will not largely exceed the original estimate.

#### *Supply of water.*

When the enlargement is completed, 31,000 cubic feet of water per minute will be required to pass the locks at Lockport, and 14,000 cubic feet through the Rochester aqueduct to supply the demand for the canal occasioned by evaporation, filtration, lockages and wastes. The following dimensions adopted by the Canal Board, embody the results of the observations, gages and estimates made by different engineers through a series of years, and



are therefore believed to be as low and economical as the necessities of the canal will allow.

Table showing the dimensions of the enlarged canal at sundry points on the western division as established by the Canal Board :

Designation of places.	Depth of water. Feet.	Width of surface. Feet.	Mean width. Feet.
From east line of Wayne county to west lock in Brighton, . . . . .	7	70	
At head of said lock, . . . . .	8	70	
At east end of Rochester aqueduct, . .	8	70	
At 100 feet west of aqueduct, . . . . .	9	70	60
At Lyell street, Rochester, . . . . .	9	70	62
At foot of locks at Lockport, . . . . .	9	100	91
Through rock cut at Lockport, first 2½ miles, . . . . .	9	62	62
Through rock cut at Lockport, 2½ miles further, . . . . .	8	90	90
From rock cut to Tonawanda creek, .	8	100	
From Pendleton to Black Rock, . . . .	8	100	
From Black Rock to Buffalo, . . . . .	8	150	

The following are the resolutions of the Canal Board fixing the dimensions of the enlargement between the first lock east of Rochester and Lockport :

*Resolution of the Canal Board, passed September 16th, 1850.*

At the lowest lock at Lockport, the mean width of the water-way of said canal shall be ninety one feet, and the depth of the same nine feet, and from thence the water channel of said canal shall regularly diminish (except when a saving of expense will warrant a wider channel) to a mean width of sixty-two feet, and nine feet depth of water at the point where the present enlarged canal in the city of Rochester is sixty-two feet in mean width, thence to the Rochester aqueduct to have a mean width of sixty-two feet and a depth of nine feet water, and thence to the easterly end of the said aqueduct as the same now is, and thence to the first lock east of Rochester, said canal to have a mean width of water-way of sixty feet, and a depth of eight feet.

*Resolved*, That the enlarged Erie canal between Lockport and the first lock east of Rochester be, and the same is hereby ordered to be constructed upon the following described level, to wit:

Commencing at the foot of the lowest lock at Lockport, at a point seven feet six inches above the lower mitre sill thereof, thence on a regular inclination to a point seven feet four inches above the level of the Rochester aqueduct at the distance of one hundred feet west of the same, and thence on a regular inclination to the first lock east of Rochester, to a point seven feet above the level of the bottom of said aqueduct. The above to be the top-water level of said canal, and the bottom of said canal to be, at the said lock at Lockport, nine feet below the said top water level, thence on a regular inclination to a point one hundred feet west of said aqueduct, and nine feet below said top-water level, thence on a regular inclination to the bottom of said aqueduct, and thence along the bottom of the same to the easterly end of the same, and thence to the first Lock east of Rochester, eight feet below the said top water level.

To pass so large a volume of water through the dimensions adopted, without intermission to the navigation, contemplates no obstructions to its flow, except from boats and craft navigating the canal.

The inclination of the surface and bottom planes of the canal between Lockport and the aqueduct at Rochester, is about 42 inches.

The aquatic grasses now grow rapidly in prism of canal between Rochester and Pendleton, seriously interrupting the flow of the water during the dry season. They require constant mowing to keep up navigation. These grasses first made their appearance between Pendleton and Lockport. They seem to have been annually extending eastward until they have now become a formidable hindrance to the business of the canal.

The enlargement will remove to some extent, this and many other causes that have annually embarrassed and delayed navigation throughout the division.

## GENESEE VALLEY CANAL.

The Genesee Valley canal, including the Dansville side cut, is 118 miles in length. There are 1057 feet of lockage on the canal proper, and 106 lift locks. Ten of these locks occur between Rochester and Mount Morris, 50 between the Shakers and the deep cut section, over a distance of 13 miles, 11 between the deep cut and the Genesee river feeder, at Rousesville, and 35 between there and the Allegany river, at Olean.

Fifty-two miles, extending from Rochester to Dansville, have been in use since 1840. Eighty-eight miles was in navigable condition during the last year.

The Genesee Valley canal follows the western border of the Genesee Valley from Rochester to near Mount Morris. From thence crossing the river, it passes up the Canaseraga and Cashquo vallies to Nunda, and thence returns through the deep cut again into the valley of the Genesee. Its course is then along the sloping grounds to Portage, where it re-crosses the river on an aqueduct, 50 feet above the bed of the stream. From Portage it follows the said valley to Belfast, when it bears away to the south-west, following up the Rockville valley to the summit level near New Hudson. This level is about 12 miles in length. From thence the line follows down the Oil creek valley to Hinsdale. Thence down the Ischua into the Olean, thence into the Allegany river, making the distance as traced 107 miles.

### *Engineering.*

The engineer's services on the Genesee Valley canal for the year ending December 31, 1851, has been employed on the completion of 36 miles of canal from the junction to the Genesee river feeder. Also on 27 miles of canal under contract for construction, from Rousesville to Olean, and in surveying and preparing for letting the Oil creek reservoir, three sections of the canal, and 3 miles of the Ischua feeder, connected therewith.

### *Condition of work, &c.*

The Genesee Valley canal from the junction to Olean, was originally commenced in 1838 and 1839. At the time of sur-

pansion in 1842, the work was left in various stages of progress. Some of the sections were complete, some half or two-thirds done, while the work on others was but just entered upon, or not commenced.

- The mechanical structures were in a similar condition. The timber docking put in to protect the banks from the freshets in the rivers and creeks, and the timber foundations and frame work of the structures in some localities, are badly decayed, and will require replacing.

### *Locks.*

All the locks, according to the original plan, were to have been of the composite kind, with chamber walls laid dry, and made tight with an inside lining of matched and grooved plank, cement masonry at head and foot was provided for in the said plan, to prevent leakage through the walls. Judging from the actual condition of the locks brought into use, and the immense leakage along and through the walls, and the constant repairs required, I have become satisfied, that it would be good economy for the Canal Board, where the structures are not too far advanced, to change the plan from composite, to stone and cement locks.

The stone throughout the vallies of the Genesee and Oil creek, are not of the best quality for building purposes, being principally of the argillaceous kind. They absorb moisture rapidly, and break under the action of frost. When laid in mortar, they are more durable, and experience has shown that their quality is greatly improved. They absorb readily from the mortar the lime property, and it is believed that masonry laid in cement from this stone, especially if exposed to damp localities, will be more than doubled in its term of duration.

In consideration of the above facts, the Canal Board, during the last year, have changed the plan of two of the locks on the upper part of the line from composite to stone.

The expense of annual repairs is much greater on composite and wood locks, than on stone. On that portion of the canal between the Genesee River feeder and Olean, there were con-

tracted in 1850, 15 stone, and the completion of 18 composite locks. Since then two of the composite locks have been changed to stone, as above. There are 47 composite, 14 wood and one stone lock, in use between the junction and Genesee river feeder. All the composite locks in use, and those now under contract, were commenced previous to 1842. If suitable arrangements can be made, I would therefore recommend as an economic measure, that more of these locks be changed to stone, and that hydraulic cement be used in the construction of masonry throughout the canal, when the work is not too far advanced to justify a change of plan.

¶ The New Hudson quarry is an exception to the above remarks. From it a most excellent quality of sand stone is taken. These cannot be used except in a few structures. The quarry is situated near the north end of the summit level, and about half a mile west of the line of canal, and has an elevation of more than 100 feet above it. The stripping is deep and expensive, and the cost of working and distance of haul such as to limit their use.

#### *Embankments.*

The great number of failures in the old banks of the canal that have occurred the past season, show conclusively that old banks are less safe than new ones. Banks annually used and made impervious by sedimentary matter drawn into and deposited as a lining on the face and bottom, will undoubtedly become more and more safe; but when left to the action of rains and frosts for several years, become porous and unsafe, and abound with cavities, where the vegetable matter in the soil has decayed.

Nine years have proved a sufficient time to work great changes in the solidity and compactness of the old banks. It is therefore recommended, in all cases where the old banks are found, to remove the sod to the outside, and plow and comminute thoroughly to the depth of 12 to 18 inches, the material over the bottom and up the slope of the prism. This will be found indispensable to safety.

The heavy breaks that have occurred since the opening of navigation last spring, were exclusively through the old banks, and uniformly disclosed a loose condition of the material.

During the past season, it has been necessary to make expensive and substantial repairs to support the embankment and prism of canal throughout the hilly and sliding region. Loose stone and slope walls have been used for this purpose with good success. Loose stone have also been used in front of old and decayed docking along the river and creeks, and have admirably answered the purpose for which they were used. Slope walls and loose stone will further be needed to give the required stability to the work on the slide section.

The sustaining walls on section 57, above the wooden trunks, remain to be completed, and the rip rap walls between the trunks and the river, to be further strengthened.

Section 54 to 57, including the slide section, have always comprised within their limits, more difficulties to surmount than any other portion of the Genesee Valley canal. The line of canal over this distance, is located along the slope of the hills, which abound in quicksand and numerous springs of water, that are continually saturating the slopes above and below. The foundations of embankments are therefore frequently treacherous. At one time everything indicates permanency, while at another cracks open along the slope until the embankment moves bodily out, carrying from 4,000 to 10,000 cubic yards of material into the valley below. Several such slides have occurred the past season on the old embankments completed in 1839 to 1842. Springs of running water were found in each instance to have been covered in the original embankment several feet below canal bottom. When the canal is filled, and these small cracks occur deep in the embankment, an immense hydrostatic pressure is at once effected, powerful enough to force the heaviest embankments from their foundations.

A heavy annual expenditure for repairs for several years to come cannot therefore be avoided over this portion of the canal. The obstacles and forces to contend with are of the uncertain kind, yet powerful and constant in their effects. Years of well applied labor in strengthening the weak portions, and arresting slides with slope walls and loose stone, can only overcome the dangers that hourly threaten the stability of the work.

*Wooden trunks over slides.*

Soon after the canal came into our charge, the present plan of wooden aqueducts over the "great slides" was furnished, and strongly recommended as the best and most effectual remedy to overcome the difficulties at these points. The two trunks are each about 400 feet long, and are supported on double bents of timber resting on bearing piles driven deep into the earth. The structures are light and do not disturb the balance of the hill, while they admit the drainage waters from springs above to pass freely under them. It is confidently hoped that time will justify the wisdom of the plan and secure to the State, at this point, a safe and permanent canal. The work has been difficult and expensive.

*Deep Cut.*

Section 54, known as the "Deep cut" section, severs the ridge of highland dividing the vallies of the Cashuquo and Genesee, and is among the heaviest section work on this canal. The deepest cutting is about 90 feet. Quicksand exists in the prism. Great danger was early apprehended from cutting through this range. It was feared that the arch being once broken, the pressure would be so great on either side as to crowd the quicksand and yielding material up from the bottom of canal, and thus render it impossible to keep the channel open. To prevent this, a row of bearing piles on each side of the prism was driven firmly from 10 to 16 feet in depth along the margin top water line. At one or two places these have been pressed up and out by the sides settling. Heavy slope walls commenced below bottom of canal have been substituted therefor and with success. No farther difficulty of this kind is apprehended.

*Watch.*

The constant settling of embankments resting on the natural slopes of the hills at sundry points, will require great care and oversight to prevent formidable failures. A daily examination of the banks and slopes, and a constant filling on of material is indispensable to safety, and can alone prevent a heavy annual expenditure for repairs. It is therefore recommended as good

economy to keep day and night watchers on such portions of the line as are evidently exposed to these causes.

*Supply of water.*

Thirty-six additional miles of the Genesee Valley canal was brought into navigable use last spring, and had to be supplied, wholly from the waters of the Genesee river and its tributaries. This increased demand upon the river added largely to the then already existing embarrassments of the hydraulic power at Rochester. During the dry season last year, scarcely half the usual supply was obtained at Rochester from the river. It is due to the people of that city that early and ample provision be made by the State to restore to them, from some source, a supply that shall fully compensate for such diversions. As the country bordering the river and its tributaries becomes more cleared and open, the quantity of drainage and supply must continue to diminish, and the evils to increase. Without some provision to restore what the State has taken away, the embarrassment must continue to grow in magnitude as the business of the canal increases. If the natural power furnished by the river belongs to those who hold titles in fee, then indeed should the State provide some remedy. The courts have decided that the Genesee river is not public property, (see 26 Wendell's Rep. 404.)

It is believed that nothing short of converting the Canandaigua lake into a permanent reservoir, will ever secure to the citizens of Monroe their just natural hydraulic power. It has been shown by careful estimates that the Canandaigua lake can be made into a reservoir with capacity to supply, during 100 days of the dry season of the year, at least 15,000 cubic feet of water per minute, at a sum not exceeding \$200,000. Should this be done, a supply of water that would fairly compensate the Rochester power for the diversion caused by the Genesee Valley canal, could be passed into the river above the miller's dam without detriment to the navigation east of Rochester. Besides the benefits above referred to, the construction of the said reservoir would create one of the most valuable, available water powers within the limits of the State, worth at least a half a million of dollars, and one that



would call into quick and profitable employment the capital and labor of the country.

The fall from the outlet of the Canandaigua to the valley of Mud creek at Palmyra, is about 240 feet. The summit level between the valleys is within one and a half miles of the valley of the outlet. From thence to Palmyra, a distance of 12 miles, the feeder would follow the branch of a valley pushing up from Mud creek, well defined in its outline, and so narrow as to render the construction of dams convenient, and at such short intervals of distance, as to give great and desirable availability. During the dry season from 10,000 to 20,000 cubic feet of water per minute, would form the constant power. More could be obtained during the balance of the year. The power now sleeping in the bosom of that lake almost valueless, that could be used without detriment to any interest, is immense, and can be made to propel throughout the whole year, twice the machinery now in use in the city of Rochester. It is only necessary to command six feet in depth of the water of the lake to secure water enough to drive 400 run of stone the year round. Should the low water level of the lake be adopted as the high water level of the reservoir, important benefits would accrue to the inhabitants around its borders. More than four thousand acres of swamp lands would be reclaimed, and the actual health of the people on its shores improved.

Important advantages would also accrue to every mill power now established down the outlet of the lake. These could be supplied with not only the usual quantity of water during the dry season, but with 1,000, 2,000, or 3,000 cubic feet more per minute, than ever before, and that without detriment to the power on the new feeder between the valleys. All these interests would be largely enhanced in value, and the wealth of the country and State greatly increased. By removing the lower Macedon lock two and one half miles towards Palmyra, the said feeder could be taken in above the lock and the canal supplied as far west as Brighton, and as far east as Port Byron, a distance of 68 miles. In view of the foregoing I would respectfully recommend the early conversion of the Canandaigua lake into a permanent reservoir for the purposes of the Erie canal as aforesaid.

*Reservoirs.*

Thirty miles of the southern portion of the canal is to be supplied entirely from artificial reservoirs constructed in the Oil creek, Ischua, and Rockville vallies.

The Oil creek and Ischua reservoirs are important works, and will require great care and good judgment in construction, to secure to them the permanency that the canal below, and property and lives of the people demand. A failure of either of these when filled, would no doubt prove destructive to a large amount of property and fatal to many lives. With reservoirs of sufficient magnitude there can be no doubt as to the means of supply.

The Ischua and Oil creek valleys receive the drainage waters of an immense area of country, and I have no doubt could their entire waters be reserved for use, they would supply enough to feed the G. V. canal through the whole season of navigation. The plan of reservoir now contemplates a trade of about 30 boats each day. When the business of the canal exceeds this, other reservoirs can be constructed at small expense, up the valleys.

*Work under contract.*

All the work on the G. V. canal is now under contract, except the Ischua reservoir and the lock houses. There was not sufficient time to complete the surveys and plans for the reservoir previous to the letting, Nov. 18th, 1851.

The surveys and plan for these works will be completed and laid before the Board at an early day.

By the terms of the contracts, this canal will be wholly finished for use the first of April, 1854.

The work has been let at low rates, as low as contractors can do it, and comply with the terms and conditions of their contracts.

Respectfully submitted,

J. B. STILLSON,  
*Division Engineer,  
Western Div'n, State Canals.*

*Rochester, Dec. 31st, 1851.*



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**NEW-YORK STATE CANALS,**

**EASTERN DIVISION,**

**Comprising the Eastern and Western, or First and Second Sub-divisions of the  
Enlargement of the Erie canal and the Black River canal.**

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**Q U A N T I T I E S,**

**PUBLICLY EXHIBITED FOR THE LETTING AT ALBANY, NOV. 18, 1851.**

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## NEW-YORK STATE CANALS.

QUANTITIES for Superstructure of Bridges, exhibited for letting November 18th, 1851, for the first Sub-division of the Eastern Division.

ITEMS.	IRON SUPERSTRUCTURE.										Wooden superstructure.
	BEACH'S PLAN.					WHIPPLE'S PLAN.					
	ROAD.					ROAD.					
	2 Roadways and 2 sidewalks.	1 Roadway and 3 sidewalks.	Single track.	Farm.		2 Roadways and 2 sidewalks.	1 Roadway and 2 sidewalks.	Single track.	1 Farm.		
Pounds wrought iron, . . . . .	16,857	12,236	7,802	3,900		16,500	13,800	8,060	3,600	2,271	1,174
Pounds cast iron, . . . . .	11,235	7,852	6,753	4,338		15,000	12,000	10,000	8,280	.....	850
Feet, B. M., hemlock, . . . . .	9,502	8,858	6,386	3,296		13,000	11,000	7,500	4,000	7,088	
Feet, B. M., oak, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	1,296	3,411
Feet, B. M., white pine, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	9,407	2,568
Ft. B. M., yellow or South'n pine, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	1,195	
Feet, B. M., spruce, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	983	
Feet, B. M., red beech, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	.....	1,750
Pine shingles, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	22,000	
Pounds spike and nails, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	.....	50
Square yards painting, . . . . .	400	330	270	270		200	125	125	125	270	190

## RESOLUTION OF THE CANAL BOARD, Adopted Oct. 17th, 1851.

Resolved, That proposals will be received for both wood and iron bridges, upon each division of the Erie canal; and that proposers for building iron bridges be requested to furnish plans and estimates therefor, to accompany their proposals; that the plans, estimates and quantities of materials for the bridge superstructure, will not be adopted until after the 18th of November next.

# QUANTITIES FOR SECTIONS,

*Exhibited as letting November 18, 1851, for the first Sub-division of the Eastern division.*

ITEMS.	Section No. 13.	Section No. 14.	Section No. 15.	Section No. 16.	Section No. 17.	Section No. 18.	Section No. 19.
Cubic yards rock excavation,.....	574	.....	3,020	28,410	.....	.....	.....
earth excavation,.....	2,226	14,014	42,816	25,960	18,000	28,270	10,100
embankment,.....	8,792	9,393	24,944	30,525	57,740	8,700	8,520
lining,.....	2,818	1,307	5,384	5,500	3,150	4,180	1,376
puddling,.....	500	690	1,500	1,250	2,500	650	450
slope wall and pavement,.....	520	1,568	3,906	2,820	3,475	4,844	1,546
vertical wall,.....	110	.....	.....	.....	293	820	.....
loose stone,.....	.....	.....	.....	.....	.....	.....	.....
Feet B. M. hemlock,.....	10,000	21,400	64,000	53,000	85,000	120,000	80,000
oak,.....	.....	.....	.....	.....	.....	8,000	.....
Roads road,.....	40	.....	.....	.....	.....	90	.....





## QUANTITIES—(CONTINUED.)

ITEMS.	Section No. 37.	Section No. 40.	Sections Nos. 41, 42, 44 and 45.	Sections Nos. 51, 52, 53, 54, 55, and 56.	Section No. 57.	Section No. 58.	Section No. 59.
Cubic yards rock excavation,.....	.....	.....	795	.....	7,770	17,583	.....
earth excavation,.....	37,770	25,396	32,910	16,700	32,854	38,167	40,687
embankment,.....	37,870	11,198	28,950	43,000	51,790	47,467	67,250
lining,.....	4,482	4,525	12,230	20,570	5,220	8,640	8,487
puddling,.....	750	500	1,650	.....	750	500	500
slope wall and pavement,.....	3,988	3,729	6,911	9,890	4,515	9,290	8,000
vertical wall,.....	.....	.....	580	.....	.....	.....	.....
loose stone,.....	.....	.....	.....	.....	.....	7,130	.....
Feet B. M. hemlock,.....	70,920	41,710	90,000	.....	76,000	137,900	137,400
oak,.....	.....	.....	15,000	.....	.....	.....	.....
Roads road,.....	.....	.....	.....	40	176	.....	.....

ITEMS.	Section No. 60.	Section No. 61.	Section No. 62.	Section No. 75.	Section No. 78.	Section No. 83.	Section No. 84.
Cubic yards rock excavation,.....	7,658	.....	.....	2,925	376	.....	750
earth excavation,.....	47,340	35,665	26,674	42,733	45,439	24,786	3,210
embankment,.....	81,487	48,210	135,673	18,297	17,000	13,470	1,050
lining,.....	8,498	6,624	7,694	6,582	7,639	5,969	340
puddling,.....	2,000	1,500	12,000	500	1,300	200	
slope wall and pavement,.....	9,324	6,461	10,040	6,100	7,699	6,293	
vertical wall,.....	.....	.....	.....	.....	.....	.....	530
loose stone,.....	6,784	2,916	21,962	.....	2,794	532	
Feet B. M. hemlock,.....	137,380	93,160	80,620	105,700	111,640	68,360	13,000
oak,.....	.....	.....	.....	.....	.....	.....	8,000
Rods road,.....	116	292	388	.....	112	.....	

## NOTICE TO PROPOSERS.

The right to substitute a docking of timber and plank, to be constructed in all respects according to the plan exhibited, in place of the whole or any part of the slope and vertical walls contained in the above estimates of quantities is hereby reserved.

Sections Nos. 30 and 31 will be constructed with 60 feet water surface, and with the docking on both sides. This will diminish the quantity of embankment as given in the above estimates for those sections.





# QUANTITIES FOR SECTIONS,

*Exhibited at letting November 18, 1851, for the first Sub-division of the Eastern division.*

ITEMS.	Section No. 13.	Section No. 14.	Section No. 15.	Section No. 16.	Section No. 17.	Section No. 18.	Section No. 19.
Cubic yards rock excavation,.....	574	.....	3,020	28,410	.....	.....	.....
earth excavation,.....	2,226	14,014	42,816	25,960	18,000	28,270	10,100
embankment,.....	8,792	9,393	24,944	30,525	57,740	8,700	3,520
lining,.....	2,818	1,307	5,384	5,500	3,150	4,180	1,376
puddling,.....	500	690	1,500	1,250	2,500	650	450
slope wall and pavement,.....	520	1,568	3,906	2,820	3,475	4,844	1,546
vertical wall,.....	110	.....	.....	.....	293	820	.....
loose stone,.....	.....	.....	.....	.....	.....	.....	.....
Feet B. M. hemlock,.....	10,000	21,400	64,000	53,000	85,000	120,000	30,000
oak,.....	.....	.....	.....	.....	.....	8,000	.....
Rods road,.....	40	.....	.....	.....	.....	90	.....

ITEMS.	Section No. 30.	Section No. 31.	Section No. 32.	Section No. 33.	Section No. 34.	Section No. 35.	Section No. 36.
Cubic yards rock excavation,.....	.....	.....	.....	16,600	.....	.....	18,500
earth excavation,.....	23,560	22,450	48,250	36,130	7,440	45,270	18,500
embankment,.....	64,770	58,890	6,800	20,900	8,110	17,540	35,537
lining,.....	6,830	6,100	6,820	5,890	1,470	5,010	2,956
puddling,.....	750	1,360	1,600	500	350	750	1,500
slope wall and pavement,.....	8,538	6,064	6,475	5,520	1,300	4,740	2,609
vertical wall,.....	.....	.....	78	.....	.....	300	.....
loose stone,.....	.....	751	.....	.....	.....	.....	.....
Feet B. M. hemlock,.....	115,000	115,000	115,000	98,000	20,000	92,000	49,600
oak,.....	.....	.....	.....	.....	.....	.....	.....
Rods road,.....	224	88	256	140	50	40	.....

## QUANTITIES—(CONTINUED.)

ITEMS.	Section No. 37.	Section No. 40.	Sections Nos. 41, 42, 44 and 45.	Sections Nos. 51, 52, 53, 54, 55, and 56.	Section No. 57.	Section No. 58.	Section No. 59.
Cubic yards rock excavation,.....	.....	.....	795	.....	7,770	17,583	.....
earth excavation,.....	37,770	25,396	32,910	16,700	32,854	38,167	40,687
embankment,.....	37,870	11,198	28,950	43,000	51,790	47,467	67,250
lining,.....	4,482	4,525	12,230	20,570	5,220	8,640	8,487
puddling,.....	750	500	1,650	.....	750	500	500
slope wall and pavement,.....	3,988	3,729	6,911	9,890	4,515	9,290	8,000
vertical wall,.....	.....	.....	580	.....	.....	.....	.....
loose stone,.....	.....	.....	.....	.....	.....	7,130	.....
Feet B. M. hemlock,.....	70,920	41,710	90,000	.....	76,000	137,900	137,400
oak,.....	.....	.....	15,000	.....	.....	.....	.....
Roads road,.....	.....	.....	.....	40	176	.....	.....

ITEMS.	Section No. 60.	Section No. 61.	Section No. 62.	Section No. 75.	Section No. 78.	Section No. 83.	Section No. 84.
Cubic yards rock excavation,.....	7,858	.....	.....	2,925	376	.....	750
earth excavation,.....	47,340	35,665	26,674	42,783	45,439	24,786	3,210
embankment,.....	81,487	48,210	135,673	18,297	17,000	13,470	1,050
lining,.....	8,498	6,624	7,694	6,582	7,639	5,969	340
puddling,.....	2,000	1,500	12,000	500	1,300	200	.....
slope wall and pavement,.....	9,324	6,461	10,040	6,100	7,699	6,293	.....
vertical wall,.....	.....	.....	.....	.....	.....	.....	530
loose stone,.....	6,784	2,916	21,962	.....	2,794	532	.....
Feet B. M. hemlock,.....	137,380	93,160	80,620	105,700	111,640	68,360	13,000
oak,.....	.....	.....	.....	.....	.....	.....	8,000
Rods road,.....	116	292	388	.....	112	.....	.....

## NOTICE TO PROPOSERS.

The right to substitute a docking of timber and plank, to be constructed in all respects according to the plan exhibited, in place of the whole or any part of the slope and vertical walls contained in the above estimates of quantities is hereby reserved.

Sections Nos. 80 and 31 will be constructed with 60 feet water surface, and with the docking on both sides. This will diminish the quantity of embankment as given in the above estimates for those sections.



**QUANTITIES FOR MECHANICAL STRUCTURES,**  
*Exhibited for letting, November 18th, 1851, for first sub-division of Eastern division.*

ITEMS.	LOCKS.					
	No. 2.	No. 24.	No. 32.	No. 34.	No. 38.	No. 39.
Cubic yds. earth excavation, . . . . .	860	1,100	1,800	1,800	800	790
old lock excavation, . . . . .	950	870	950	1,000	950	1,060
rock excavation, with blasting, . . . . .	950	250	....	.....	1,000	1,160
embankment, . . . . .	1,000	900	900	900	1,000	1,100
lining, . . . . .	1,260	1,300	1,300	1,300	1,200	1,500
puddling earth, . . . . .	230	260	240	300	250	310
loose stone, . . . . .	620	620	620	620	620	650
masonry in lock walls, abutments and wings, do culvert, well and arches, . . . . .	1,750 214	1,620 209	1,620 209	1,620 209	1,760 67	1,875 219
concrete masonry, . . . . .	90	90	....	90	90	90
Feet b. m. white oak timber, . . . . .	21,800	20,850	20,850	20,850	21,800	23,000
white pine timber, . . . . .	17,800	17,870	17,870	17,870	17,800	18,200
hemlock or spruce, . . . . .	111,200	111,140	111,140	111,140	111,200	112,500
Lineal feet bearing piles driven, . . . . .	.....	.....	14,460	14,460	.....	.....
Pounds wrought iron, . . . . .	3,710	3,500	3,710	3,710	3,900	3,920
cast iron, . . . . .	350	350	350	350	350	350
spike and nails, . . . . .	4,375	4,375	4,375	4,375	4,400	4,400
lead, . . . . .	500	500	500	500	500	500
Painting lock gates per lock, . . . . .	1	1	1	1	1	1
Snubbing posts, . . . . .	6	6	6	6	6	6

ITEMS.	AQUEDUCTS.				CULVERTS.	
	Princip's.	Outsma.	Leader's.	Philip's.	Sec. No. 16.	Sec. No. 17.
Cubic yds. earth excavation, .....	1,323	11,000	6,082	2,030	700	1,150
embankment, .....	.....	.....	.....	1,420	200	998
lining, .....	529	529	529	360	150	50
puddling earth, .....	424	424	424	420	380	173
slope wall and pavement, .....	.....	.....	.....	240	.....	.....
vertical walls, dry, .....	.....	.....	.....	80	.....	.....
masonry in lock walls, abutments and wings, .....	1,078	1,078	945	143	66	44
do culvert, well and arches, .....	.....	.....	.....	135	43	.....
do coping, .....	.....	.....	.....	15	.....	.....
Feet b. m. white oak timber, .....	18,214	18,214	14,000	.....	1,704	160
white pine timber, .....	83,911	83,911	64,650	7,717	1,330	1,580
hemlock or spruce, .....	102,592	102,592	88,592	20,268	6,620	13,860
Lineal feet bearing piles driven, .....	14,720	14,720	12,480	.....	840	.....
Pounds wrought iron, .....	581	581	468	.....	140	150
spike and nails, .....	2,491	2,491	2,050	.....	150	190
lead, .....	500	500	400	.....	.....	.....

## QUANTITIES—(CONTINUED.)

ITEMS.	CULVERTS.					
	Sec. No. 30.	Sec. No. 40.	Sec. No. 50.	Sec. No. 60.	Sec. No. 75.	Secs 33, 34, 35
Cubic yds. earth excavation,.....	1,200	2,440	1,200	1,200	2,000	1,530
rock excavation, without blasting,.....	.....	.....	.....	.....	.....	50
embankment,.....	960	1,800	840	840	960	1,900
lining,.....	150	250	100	100	150	725
puddling earth,.....	130	280	150	150	130	550
masonry in lock walls, abutments and wings, do culvert, well and arches,.....	110	208	98	98	110	200
masonry in coping,.....	64	117	53	53	64	110
concrete masonry,.....	.....	.....	.....	.....	.....	20
Feet b. m. white oak timber,.....	38	59	26	26	33	100
white pine timber,.....	.....	.....	.....	.....	.....	100
hemlock or spruce,.....	2,200	3,550	1,350	1,550	2,200	3,000
Lineal feet bearing piles driven,.....	11,000	19,500	8,500	8,500	11,000	9,000
Pounds wrought iron,.....	1,464	2,664	1,200	1,200	1,464	.....
spike and nails,.....	.....	.....	.....	.....	.....	325
	1,000	1,650	650	650	1,000	.....

ITEMS.	BRIDGE ABUTMENTS.		WASTE WEIRS.	
	Road.	Farm.	Section 30.	Section 56.
Cubic yds. earth excavation,.....	1,800	6,900	1,460	1,460
embankment,.....	500	2,300	1,090	1,090
lining,.....	300	1,150	180	180
puddling earth,.....	180	690	160	160
loose stone,.....	300	1,156	.....	.....
masonry in lock walls, abutments and wings,	2,350	7,728	.....	.....
do culvert, well and arches,.....	.....	.....	357	357
Feet b. m. white oak timber,.....	.....	.....	144	144
white pine timber,.....	.....	.....	2,200	2,200
hemlock or spruce,.....	.....	.....	2,240	2,240
Lineal feet bearing piles driven,.....	79,000	261,740	20,000	20,000
Pounds wrought iron,.....	.....	.....	3,580	3,580
cast iron,.....	.....	.....	1,370	1,370
Square yards painting,.....	.....	.....	2,030	2,030
	.....	.....	34	34

# QUANTITIES

For superstructure of bridges, exhibited for letting Nov. 18th, 1851, for the first Sub-division of the Eastern Division.

ITEMS.	IRON SUPERSTRUCTURE.										Wooden superstructure.	
	BEACH'S PLAN.					WHIPPLE'S PLAN.					One road.	One team.
	ROAD.					ROAD.						
	2 Roadways and 2 sidewalks.	1 Roadway and 2 sidewalks.	Single track.	Farms.	2 Roadways and 2 sidewalks.	1 Roadway and 2 sidewalks.	Farms.					
Pounds wrought iron, . . . . .	16,857	12,236	7,802	3,900	14,600	8,300	4,700	2,271	1,174			
Pounds cast iron, . . . . .	11,235	7,852	6,753	4,338	15,300	9,200	9,000	.....	850			
Feet, B. M., hemlock, . . . . .	9,502	8,858	6,386	3,296	5,000	3,600	4,800	7,088				
Feet, B. M., oak, . . . . .	.....	.....	.....	.....	2,000	1,440	.....	1,296	3,411			
Feet, B. M., white pine, . . . . .	.....	.....	.....	.....	6,700	3,200	.....	9,407	2,568			
Ft. B. M. yellow or south'n pine, . . . . .	.....	.....	.....	.....	.....	.....	.....	1,195				
Feet, B. M., spuce, . . . . .	.....	.....	.....	.....	.....	.....	.....	938				
Feet, B. M., red beech, . . . . .	.....	.....	.....	.....	.....	.....	.....	.....				
Pine shingles, . . . . .	.....	.....	.....	.....	.....	.....	.....	.....				
Pounds spike and nails, . . . . .	.....	.....	.....	.....	.....	.....	.....	22,000				
Square yards painting, . . . . .	400	330	270	270	200	125	125	.....				
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RESOLUTION OF THE CANAL BOARD, Adopted October 17th, 1851.

Resolved, That proposals will be received for both wood and iron bridges, upon each division of the Erie canal; and that proposers for building iron bridges be requested to furnish plans and estimates therefor, to accompany their proposals; that the plans, estimates and quantities of materials for the bridge superstructure, will not be adopted until after the 18th of November next.



ITEMS.

ITEMS.	Block arch culvert, 4 feet chord, on section No. 130.	Composite culvert, 2x2, on section No. 130.	Three composite culverts, 2x2 on sections No. 131 & 132.	Two composite culverts, 2x2, 3 spaces, No. 133 and 134.	One waste weir on each of sections No. 130, 137, & 134.	Dam across the Mohawk river at Rome.	Feeders, including bulk-head and bridges at Rome.
Cubic yards excavation of earth,.....	800	1,200	2,900	2,000	1,000	9,000	3,500
embankment,.....	500	100	400	300	500	1,500	500
puddling, including materials, lining,.....	50	100	300	200	200	500	100
loose stone,.....	.....	.....	.....	.....	.....	200	300
slope wall,.....	.....	.....	.....	.....	.....	200	200
vertical wall,.....	.....	.....	.....	.....	.....	400	150
concrete,.....	.....	.....	.....	.....	.....	50	30
masonry in arches,.....	55	.....	.....	.....	70	.....	.....
do not in arches,.....	200	35	80	80	310	330	950
Feet, B. M. white oak timber, plank & boards,.....	.....	100	400	500	1,200	1,000	.....
white pine, do do	1,000	1,300	5,400	9,800	5,500	.....	3,000
red beech, do do	.....	.....	.....	.....	.....	.....	3,500
hemlock, do do	8,000	14,000	47,000	56,000	32,000	120,000	30,000
Lineal feet, bearing piles, delivered,.....	.....	.....	.....	.....	.....	7,200	.....
Feet, B. M. bearing piles, driven,.....	.....	.....	.....	.....	.....	7,200	1,050
Pounds wrought iron,.....	.....	140	420	540	600	3,100	2,600
cast iron,.....	.....	.....	.....	.....	1,000	.....	500
chilled,.....	.....	.....	.....	.....	150	.....	.....
spikes and nails,.....	200	100	450	540	500	500	400

## EASTERN DIVISION, WESTERN SUB-DIVISION.

*Quantities for locks. Letting at Albany, Nov. 20th, 1851.*

Items.	Lock No. 40, 8 feet lift.	Lock No. 41, 8 feet lift.	Lock No. 42, 8 feet lift.
Excavation of earth, cubic yards,	3,000	3,500	4,000
do old lock walls, do	1,000	1,000	1,000
Embankment, ..... do	2,800	2,800	2,800
Lining, ..... do	1,200	1,209	1,200
Puddling, ..... do	1,000	1,000	1,000
Slope and pavement wall, do	200	100	200
Vertical wall in mortar, .. do	60	60	60
do dry, ..... do	100	200	100
Masonry in lock walls, ... do	1,780	1,700	1,650
Concrete masonry, ..... do	200	200	200
Loose stone, ..... do	350	350	350
White oak timber & plank, ft. b. m.	16,000	16,000	16,000
White pine, ..... do	15,000	15,000	15,000
Hemlock, ..... do	70,000	70,000	70,000
Bearing piles, delivered, lineal ft.	12,000	12,000	12,000
Driving bearing piles, ... do	12,000	12,000	12,000
Wrought iron, except valves, lbs.	3,500	3,500	3,500
Cast iron, do do	330	330	330
Lead, ..... do	500	500	500
Spikes and nails, ..... do	500	500	500
Snubbing posts, No. 7, ..... do	6	6	6

DANIEL C. JENNE,  
*Resident Engineer.*

*Engineer's Office, at Rome.*



# EASTERN DIVISION—WESTERN SUB-DIVISION.

## Quantities for bridge abutments.

ITEMS.	7 bridges between Utica and Frankfort including completion of canal at old bridge	Plank road bridge on section No. 112.	Bridge at Yorkville.	Bridge at Whitesboro	7 farm bridges from Oriskany to Stanwix.	Plank road bridge at Stanwix.	4 farm bridges from Rome to N. London.	2 road bridges, from Rome to N. London.	Road bridge at New London.	Farm bridge from New London to Hig- gins.	2 road bridges from New London to Hig- gins.	Stop gates.
Cutts yards, excavation of earth,.....	11,900	200	200	200	1,400	200	800	400	800	200	400	350
embankment,.....	13,900	400	500	400	2,500	400	1,400	700	300	350	700	100
lining,.....	720	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
procuring and puddling,.....	.....	40	40	40	200	40	120	60	50	30	60	100
Loose stone,.....	120	30	40	30	200	30	100	50	50	30	50	.....
slope wall,.....	790	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
vertical wall, in mortar, do laid dry,.....	490	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
masonry,.....	1,010	240	270	240	1,050	240	600	300	320	150	300	.....
Feet. B. M. white pine timber and plank, red cedar,.....	1,400	300	300	300	1,400	300	800	400	300	200	400	1,500
hemlock,.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	400
.....	29,000	5,000	6,000	5,000	23,000	5,000	16,000	8,000	7,000	4,000	8,000	16,500
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,700
Libs., spikes and nails,.....	700	100	150	100	700	100	400	200	150	180	.....	200
wrought iron,.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50
Rods, road,.....	260	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

## EASTERN DIVISION—WESTERN SUB-DIVISION.

*Quantities for sections. Letting at Albany, Nov. 20, 1851.*

ITEMS.	Sections.							
	Section No. 112, 80 chains.	Section No. 117, 73 chains.	Section No. 118, 76 chains.	Section No. 119, 77 chains.	Section No. 120, 73 chains.	Section No. 121, 73 chains.	Section No. 122, 80 chains.	Section No. 123, 80 chains.
Cubic yds. excavation of earth, .....	43,000	42,000	35,000	51,000	55,000	56,000	40,000	65,000
do of rock, .....	100	300	100	100	50	100	50	50
embankment, .....	27,000	35,000	30,000	6,000	6,000	4,000	6,000	22,000
lining, .....	4,700	5,100	5,600	6,000	5,500	5,500	4,000	16,000
pudding, .....	1,300	5,000	1,000	1,000	2,000	1,000	1,000	500
slope and pavement wall, .....	5,300	4,000	4,650	4,800	4,700	4,500	3,600	500
vertical wall, in mortar, .....	70	.....	.....	.....	.....	.....	50	.....
do dry, .....	150	100	50	100	100	100	200	.....
loose stone, .....	30	.....	100	.....	500	.....	.....	.....
Feet b. m. red beech timber, boards and plank, ...	500	.....	.....	.....	.....	.....	.....	111,000
hemlock timber, boards and plank, ....	13,500	2,000	1,000	2,000	2,000	2,000	3,000	565,000
Rods, constructing road, .....	100	.....	.....	.....	.....	.....	.....	.....
Pounds, spikes and nails, .....	200	100	50	100	100	100	150	11,000

## QUANTITIES—(CONTINUED.)

ITEMS.	Section No. 126, 79 chains.	Section No. 127, 84 chains.	Section No. 128, 80 chains.	Section No. 129, 76 chains.	Section No. 130, 70 chains.	Section No. 131, 68 chains.	Section No. 132, 72 chains.	Section No. 133, 78 chains.	Section No. 134, 68 chains.
Cubic yds. excavation of earth, .....	73,000	38,000	48,000	28,000	86,000	61,000	60,000	64,000	45,000
do of rock, .....	100	.....	50	100	200	100	100	100	50
embankment, .....	17,000	75,000	34,500	78,000	29,000	6,000	18,000	20,000	16,000
lining, .....	9,200	5,800	6,100	5,400	5,300	5,100	5,500	5,000	5,500
puddling, .....	400	2,000	200	9,000	2,000	300	1,500	1,500	1,000
slope and pavement wall, .....	2,400	4,600	6,000	4,350	4,350	4,200	4,500	4,000	4,500
vertical wall, in mortar, .....	.....	.....	.....	.....	.....	.....	.....	.....	100
do dry, .....	50	.....	100	50	50	.....	150	100	50
loose stone, .....	50	200	50	500	100	50	100	100	100
Feet b. m. red beech timber, boards & plank	42,000	.....	.....	.....	.....	.....	.....	.....	.....
hemlock timber, boards & plank,	215,000	10,000	2,000	1,000	1,000	3,000	1,000	2,000	2,000
Rods, constructing road, .....	.....	.....	.....	25	.....	100	120	216	140
Pounds, spikes and nails, .....	4,200	500	100	50	50	100	50	100	150

*Engineer's office at Rome.*

DANIEL C. JENNE, Resident Engineer.

## NOTICE TO PROPOSERS.

The right to substitute a docking of timber and plank, to be constructed in all respects according to the plan exhibited, in place of the whole or any part of the slope or vertical walls contained in the above estimates of quantities, is hereby reserved.

# BLACK RIVER CANAL. QUANTITIES FOR IMPROVEMENT OF BLACK RIVER.

ITEMS.	DAM AND PIER.									
	No. 1.	No. 2.	No. 3.	No. 4.	No. 5.	No. 6.	No. 7.	No. 8.	No. 9.	No. 10.
Chains. Dam, .....	3	3	3	4	4	3	4	4	3	6
do Pier, .....	46	54	19	43	26	40	19	33	18	31
Cubic yds. Excavation of earth under water, .....	12,600	12,700	3,700	19,200	10,300	10,100	4,500	10,500	3,700	13,800
do Excavation of rock under water, ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
do Loose stone, ..	2,070	2,410	930	1,990	1,270	1,820	980	1,570	890	1,570
Lineal ft. Bearing piles, delivered, ..	15,800	18,500	6,900	15,100	9,500	13,900	7,200	11,800	6,600	11,600
do Bearing piles in work, .....	15,800	18,500	6,900	15,100	9,500	13,900	7,200	11,800	6,600	11,600
Feet, b. m. Hemlock timber & plank, ..	129,000	151,000	57,000	123,000	77,000	113,000	58,000	96,000	54,000	94,000
do Red beech ties and planks, ..	19,100	22,300	8,300	18,100	11,300	16,700	8,500	14,100	7,900	13,800
Pounds. Spikes, .....	3,800	4,400	1,700	3,700	2,300	3,400	1,800	2,900	1,600	2,900

## QUANTITIES.—(Continued.)

ITEMS.	DAM AND PIER.										Channel at other places 147 chains.	Total quantities.
	No. 11.	No. 12.	No. 13.	No. 14.	No. 15.	No. 16.	No. 17.	No. 18.	No. 19.	No. 20.		
Chains. Dam,.....	4	.....	3	8	4	5	.....	4	.....	.....	.....	65
do Pier,.....	21	13	18	22	78	71	40	52	.....	.....	.....	644
Cubic yds. Excavation of earth under water,.....	5,900	4,100	6,700	9,500	13,600	30,600	5,000	19,000	29,000	224,500	.....	.....
do Excavation of rock under water,.....	.....	.....	.....	.....	.....	.....	.....	.....	400	.....	.....	400
do Loose stone,...	1,060	550	890	1,270	3,470	3,220	1,690	2,370	.....	.....	.....	30,020
Lineal ft. Bearing piles delivered,...	7,800	4,300	6,600	9,000	26,600	24,500	13,200	18,000	.....	.....	.....	226,900
do Bearing piles in work,.....	7,800	4,300	6,600	9,000	26,600	24,500	13,200	18,000	.....	.....	.....	226,900
Feet, b. m. Hemlock timber & plank,	64,000	35,000	54,000	73,000	218,000	200,000	108,000	147,000	.....	.....	.....	1851000
do Red beech ties and plank,...	9,300	5,200	7,900	10,700	32,100	29,000	16,000	21,700	.....	.....	.....	272,600
Pounds. Spikes,.....	2,000	1,000	1,600	2,300	5,400	5,900	3,100	4,400	.....	.....	.....	56,200

**QUANTITIES FOR SLICES TO LOCKS—Letting at Albany, Nov. 20, 1851.**

ITEMS.	LOCKS.							
	No. 34.	No. 35.	No. 36.	No. 37.	No. 38.	No. 39 to 42.	No. 43 to 46.	No. 47.
Cubic y'ds, excavation of earth, .....	480,	100	280	870	930	1,500	560	850
do of rock with blasting, .....	50	.....	.....	60	.....	50	100	
do of rock without blasting, .....	10	.....	.....	10	.....	10	20	
do of old slope wall, .....	.....	.....	.....	20	20	20	.....	20
embankment, .....	150	150	170	150	150	600	450	150
lining, .....	20	20	20	20	20	100	60	20
pudling, .....	50	50	50	50	50	450	150	50
slope wall of field stone, .....	20	20	20	20	20	100	60	20
do of quarried stone, .....	50	50	50	50	50	250	150	50
rubble wall, in mortar, .....	.....	.....	.....	10	10	10	10	10
do dry, .....	.....	.....	.....	10	10	10	10	10
Feet b. m., white oak or elm pins, .....	30	30	30	30	30	150	90	30
red beech timber, plank and boards, .....	800	800	800	800	800	4,000	2,000	800
hemlock do do .....	8,000	8,000	8,000	8,000	8,000	30,000	16,000	8,000
Pounds, spikes and nails, .....	100	100	100	100	100	400	400	100



ITEMS.	LOCAL.							
	No. 56.	No. 57.	No. 58 to 60.	No. 61.	No. 62.	No. 63.	No. 64.	No. 65.
Cubic y'ds, excavation of earth, .....	430	500	1,100	230	250	250	210	240
do of rock with blasting, .....	.....	.....	20	10	.....	.....	.....	.....
do of rock without blasting, .....	.....	.....	10	.....	.....	.....	.....	.....
do of old slope wall, .....	20	20	.....	20	20	.....	.....	20
embankment, .....	150	130	300	100	140	130	120	150
lining, .....	20	20	60	20	20	20	20	20
puddling, .....	50	50	150	50	50	50	30	50
slope wall of field stone, .....	20	20	60	20	20	20	10	20
do of quarried stone, .....	50	50	100	50	30	50	20	50
rubble wall in mortar, .....	10	10	.....	.....	.....	10	.....	10
do dry, .....	10	10	.....	.....	.....	10	.....	10
Feet b. m., white oak or elm pins, .....	30	30	90	30	30	30	30	30
red beech timber, plank and boards, .....	800	800	2,000	800	800	800	800	800
hemlock, .....	8,000	8,000	20,000	8,000	8,000	8,000	5,000	8,000
Pounds, spikes and nails, .....	100	100	400	100	100	100	100	100



**QUANTITIES for sluices to locks—(CONTINUED.)**

ITEMS.	Locks.					Totals.
	No. 66.	No. 67.	No. 68.	No. 69.	No. 70.	
Cubic yd's, excavation of earth,.....	100	230	300	620	420	14,230
do of rock with blasting,.....	.....	.....	.....	.....	20	320
do of rock without blasting,.....	.....	.....	10	10	20	100
do of old slope wall,.....	.....	20	20	20	.....	400
embankment,.....	100	320	330	130	150	5,460
lining,.....	20	20	20	20	20	740
pudding,.....	20	50	50	50	20	1,970
slope wall of field stone,.....	10	20	20	20	10	710
do of quarried stone,.....	20	50	50	50	20	1,690
rubble wall, in mortar,.....	.....	10	10	10	.....	200
do dry,.....	.....	10	10	10	.....	200
Feet b. m., white oak or elm pins,.....	30	30	30	30	30	1,090
red beech timber, plank and boards,.....	800	800	800	800	800	28,800
hemlock do.....	4,000	8,000	8,000	8,000	8,000	270,000
Pounds, spikes and nails,.....	100	100	100	100	100	3,800

## QUANTITIES

For mechanical and section work.

ITEMS.	DELTA FEEDER.				DAMS.		RESERVOIRS.						
	Section work.	Guard lock.	Bridges.	Culverts.	Across B. R. at Hi. Falls.	Across B. R. at Cartge.	Road bridges at High Falls.	Square stone culvert, sec.	Raising about dams &c. to Will. Hamerville.	At Wood Hall.	N. Br'ch S. Riv'r.	No. 1. B. Riv'r.	No. 2. S. Br'ch B. Riv'r.
Cable yards excavation of earth,.....	56,000	2,500	50	200	200	15,000	50	300	200	1,500	2,000	2,000	3,400
excavation of rock,.....	100	.....	.....	.....	80	200	10	10	.....	100	200	100	300
embankment,.....	28,000	1,900	40	.....	300	1,000	.....	50	2,000	16,000	28,000	14,000	14,000
brush and gravel filling,.....	.....	.....	.....	.....	2,300	1,500	.....	.....	.....	800	.....	.....	.....
lining,.....	2,000	100	.....	.....	200	200	.....	.....	200	2,700	3,300	2,000	2,600
padding,.....	1,000	200	.....	30	200	200	.....	20	200	2,700	3,300	2,000	2,600
slope and pavement wall,.....	400	100	.....	.....	100	100	.....	20	200	150	200	150	150
rubble wall in mortar,.....	.....	.....	.....	.....	.....	50	.....	100	30	.....	.....	.....	.....
rubble wall laid dry,.....	.....	30	.....	.....	.....	20	.....	.....	.....	.....	.....	.....	.....
concrete,.....	300	100	.....	.....	950	1,000	.....	10	.....	.....	800	300	500
loose stone,.....	.....	600	.....	25	150	100	100	.....	.....	.....	.....	.....	.....
hydraulic masonry,.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Feet, B. M. white oak or white elm timber and plank,.....	.....	4,000	.....	.....	600	700	.....	.....	.....	.....	1,500	.....	.....
Feet, B. M. white pine timber and plank,.....	.....	500	1,600	.....	.....	.....	3,300	.....	.....	.....	.....	.....	8,000
red beech timber and plank,.....	.....	6,200	600	300	6,000	5,500	600	.....	.....	4,500	9,000	8,000	.....
spruce,.....	.....	4,500	.....	500	.....	.....	.....	.....	.....	.....	.....	.....	130,000
hemlock,.....	.....	58,040	9,000	7,000	200,000	222,000	8,500	5,700	.....	72,000	238,000	120,000	120,000
Pounds wrought iron,.....	.....	1,000	300	100	1,400	9,000	520	.....	.....	1,500	1,500	1,500	1,500
cast iron,.....	.....	240	.....	.....	.....	.....	.....	.....	.....	300	300	300	300
cast iron chilled,.....	.....	150	30	50	100	500	150	50	.....	1,000	1,500	1,000	1,000
spike and nails,.....	.....	200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
lead,.....	.....	.....	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
zinc,.....	.....	.....	100	.....	.....	.....	200	.....	.....	.....	.....	.....	.....
Square yards painting and sanding,.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Number of snubbing posts,.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Holes drilled in rock,.....	.....	.....	.....	170	350	.....	.....	.....	.....	.....	.....	.....	.....

Note.—There are four bridges and two culverts for the Delta Feeder.



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## **NEW-YORK STATE CANALS.**

### **MIDDLE DIVISION.**

**Comprising the Eastern and Western, or First and Second sub-divisions of the enlargement of the Erie canal, and the Oswego canal.**

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## **QUANTITIES,**

**PUBLICLY EXHIBITED FOR THE LETTING AT ALBANY, NOV. 18, 1851.**

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# ENLARGEMENT OF THE ERIE CANAL.

*Eastern subdivision of the middle division, extending from Oneida lake canal west to Bolivar.*

STATEMENT, SHOWING THE QUANTITIES ESTIMATED IN THE CONSTRUCTION OF SECTIONS 135 TO 151, BOTH INCLUSIVE.

Quantities and No. of sections.

ITEMS.	135.	136.	137.	138.	139.	140.	141.	142.	143.	144.
Chains, length, .....	77, 75	86, 00	75, 48	64, 75	68, 00	79, 00	74, 00	81, 00	84, 00	78, 00
Cu. y'ds, excavation of earth, .....	60, 600	82, 000	70, 500	48, 300	42, 000	11, 600	46, 900	97, 400	86, 600	49, 100
do rock without blast'g, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
embankment, .....	10, 000	9, 900	3, 300	6, 500	27, 000	8, 000	19, 000	6, 000	8, 100	7, 000
lining, .....	5, 400	5, 900	5, 100	4, 600	4, 800	3, 100	5, 200	15, 500	11, 900	5, 500
puddling, .....	6, 100	7, 000	5, 000	4, 200	8, 800	1, 000	8, 100	2, 000	3, 900	8, 000
slope and pavement wall, .....	6, 800	7, 500	6, 500	5, 800	5, 900	5, 100	6, 600	7, 200	7, 300	6, 920
vertic'l or batter'd wall p'd dry, .....	150	210	350	.....	210	280	.....	.....	270	.....
B. measure, hemlock timber and plank, .....	1, 700	2, 500	4, 200	.....	2, 400	3, 500	11, 000	.....	3, 200	.....
oak do do .....	750	1, 040	1, 800	.....	1, 100	1, 500	.....	.....	1, 400	.....
Rods, constructing road, .....	130	90	100	350	230	.....	300	90	160	260
Cu. y'ds, Rubble wall, in mortar, .....	.....	.....	.....	.....	.....	.....	170	.....	.....	.....

## QUANTITIES.—(CONTINUED.)

## FROM NEW BOSTON TO SECTION 152.

ITEMS.	Quantities and No. of section.										North line.		South line.	
	145.	146.	147.	148.	149.	150.	151.	149.	150.	151.	149.	150.	150.	151.
Chains, length, .....	81, 75	85, 00	81, 35	76, 22	82, 10	95, 00	89, 52	52, 90	104, 56	110, 40				
C. y. excavation of earth, .....	48, 600	61, 300	49, 500	51, 000	34, 200	56, 700	27, 100	11, 230	241, 200	124, 200				
do rock without blasting,	.....	.....	.....	6, 000	2, 000	18, 000	18, 500	500	7, 000	4, 500				
embankment, .....	14, 300	20, 800	20, 000	13, 400	42, 300	28, 000	50, 500	61, 800	4, 000	30, 000				
lining, .....	5, 500	5, 900	5, 600	5, 300	5, 000	4, 400	5, 400	3, 700	5, 880	6, 650				
puddling, .....	9, 000	9, 000	8, 000	8, 200	15, 000	5, 000	6, 000	9, 100	2, 340	7, 400				
slope and pavement wall, ....	6, 200	6, 900	7, 300	6, 600	6, 100	6, 400	6, 300	4, 690	9, 280	9, 780				
vertic'l or batt'r'd wall 17'd dry,	610	180	.....	180	270	.....	180	.....	180	180				
B. measure, hemlo'k timb'r & plank	6, 600	2, 100	.....	2, 100	3, 200	.....	2, 100	.....	2, 100	2, 100				
oak, do do	2, 800	900	.....	900	1, 400	.....	900	.....	900	900				
Rods, constructing road, .....	120	210	240	210	30	30	20	20	20	20				
Cu. yards, Rubble wall, in mortar,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....				

## EASTERN SUBDIVISION OF THE MIDDLE DIVISION.

Statement, showing the estimated quantities for stone box culverts, and for composite culverts, required on the above subdivision.  
DESCRIPTION AND LOCATION OF STRUCTURE.

ITEMS.	Composite 1 space. Section 135. Station 33.		Composite 1 space. Section 136. Station 59.		Composite 1 space. Section 136. Station 11.		Composite 1 space. Section 136. Station 41.		Stone box 1 space. Section 136. Station 71.		Stone box 1 space. Section 137. Station 39.		Composite 2 space. Section 137. Station 70.		Composite 10 space. Section 141. Station 70.	
Cubic yds. excavation of earth, .....	1,130	1,280	1,230	530	720	820	1,170	3,500								
do solid rock, .....	10	10	10	10	10	10	10	10								
do quarried rock, .....	10	10	10	10	10	10	10	10								
puddling, .....	60	50	50	60	50	50	60	290								
masonry in abutment, piers and wings, ..	90	95	95	90	115	115	110	330								
do concrete, .....	8	8	8	8				100								
B. measure, hemlock timber and plank, .....	16,900	16,480	16,480	16,900	9,320	9,320	25,200	135,500								
pine do .....	7,400	7,170	7,170	7,400	730	730	10,400	37,000								
oak do .....	180	180	180	180	100	100	320	860								
Pounds, wrought iron, .....								1,320								
spikes and nails, .....	150	150	150	150	100	100	200	300								



## DESCRIPTION—(CONTINUED.)

ITEMS.	Stone box 1 space. Section 141. Reeder.	Composite 2 spaces. Section 144. Station 7.	Composite 1 space. Section 146. Station 12.	Composite 3 spaces. Section 147. Station 24.	From New Boston to Section 138.			
					North line		South line.	
					Stone box 1 space. Section 150. Station 32.	Composite 1 space. Section 149. Station 44.	Composite 10 spaces. Section 150. Station 8.	Stone box 1 space. Section 151. Station 55.
Cubic yds, excavation of earth, .....	745	1,200	1,280	1,760	620	1,000	3,500	820
do solid rock, .....	.....	10	10	10	10	10	10	10
do quarried rock, .....	.....	20	10	10	50	10	10	10
puddling, .....	40	60	50	70	45	60	290	50
masonry in abutment, piers and wings, ..	84	110	95	131	99	90	330	115
do concrete, .....	.....	14	8	20	.....	8	100	.....
B. measure, hemlock timber and plank, .....	7,750	25,200	16,480	35,600	9,600	16,900	135,500	9,320
do do .....	750	10,400	7,170	13,300	760	7,400	37,000	730
oak do .....	100	320	180	350	100	180	860	100
Pounds, wrought iron, .....	.....	.....	.....	.....	.....	.....	1,220	.....
spikes and nails, .....	100	200	150	200	100	150	1,300	100

## EASTERN SUBDIVISION OF THE MIDDLE DIVISION.

STATEMENT showing the estimated Quantities for all mechanical structures required on the above subdivision, except for stone box culverts, composite culverts, and for bridges.

## DESCRIPTION AND LOCATION OF STRUCTURES.

From N. Boston to sec. 142.

ITEMS.	Aqueduct at Chittenango.									
	Arch culvert, 4 feet chord, sec. 138. sta. 51.	Arch culvert, 12 feet chord, sec. 139. sta. 20.	Arch culvert, 8 feet chord, sec. 139. sta. 20.	Waste well, sec. 141, sta. 72½.	Piers & Guard rails, section 141, road. sta. 37½.	Double arch culvert, 8 ft chord, sec. 145. sta. 37½.	Aqueduct, 1 m. (Composite), sec. 149, sta.	North line.	South line.	
Cu. yds, excavation of earth,...	1,320	1,600	2,030	600	1,800	3,100	2,000	3,440	6,000	
solid rock, .....	10	10	10	10	10	10	300	10	10	
quarried rock, .....	10	20	10	10	10	10	1,200	50	50	
embankment, .....							500	550	550	
puddling, .....	50	80	60	140	170	140	800	1,000	1,000	
masonry in abutment's, piers & wings, arches, .....	135	543	134	313	130	339	1,643	1,660	1,660	
concrete, .....	30	215	45	20		130				
B. measure, hemlock timber and plank, ..	16,000	51,000	19,100	32,112	36,600	41,320	55,500	95,600	95,600	
pine, do ..	1,350	4,650	1,450	2,400	4,800	4,840	27,700	69,800	69,800	
oak, do ..	200	300	150	1,500	3,450	300	920	2,700	2,700	
Lineal feet, piles, .....								14,100	14,100	
Pounds, wrought iron, .....				600	600		300	600	600	
cast iron, .....				1,800	1,800		600	900	900	
spikes and nails, .....	100	200	150	200	200	150	100	200	200	

# NEW-YORK STATE CANALS.

QUANTITIES for superstructure of bridges, exhibited for letting November 18th, 1851.

ITEMS.	IRON SUPERSTRUCTURE.										Wooden superstructure.
	BEACH'S PLAN.					WHIPPLE'S PLAN.					
	ROAD.					ROAD.					
	1 Roadway and 2 sidewalks.		Single track.	Farm.	2 Roadways and 2 sidewalks.	1 Roadway and 2 sidewalks.		Farm.	One road.	One farm.	
	2 Roadways and 2 sidewalks.	1 Roadway and 2 sidewalks.									
Pounds wrought iron, .....	16,857	12,236	7,802	3,900	14,600	8,300	4,700	2,271	1,174		
Pounds cast iron, .....	11,235	7,852	6,753	4,338	15,300	9,200	9,000	.....	850		
Feet, B. M., hemlock, .....	9,502	8,858	6,386	3,296	5,000	3,600	4,800	7,088			
Feet, B. M., oak, .....	.....	.....	.....	.....	2,000	1,440	.....	1,296	3,411		
Feet, B. M., white pine, .....	.....	.....	.....	.....	6,700	3,200	.....	9,407	2,568		
Feet, B. M., yellow or Southern pine, ..	.....	.....	.....	.....	.....	.....	.....	1,195			
Feet, B. M., spruce, .....	.....	.....	.....	.....	.....	.....	.....	933			
Feet, B. M., red beech, .....	.....	.....	.....	.....	.....	.....	.....	.....	1,750		
Pine shingles, .....	.....	.....	.....	.....	.....	.....	.....	22,000			
Pounds spike and nails, .....	.....	.....	.....	.....	.....	.....	.....	.....	50		
Square yards painting, .....	400	330	270	270	200	125	125	270	120		

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[ASSEMBLY

## RESOLUTION OF THE CANAL BOARD, Adopted October 17th, 1851.

Resolved, That proposals will be received for both wood and iron bridges, upon each division of the Erie canal, and that proposers for building iron bridges be requested to furnish plans and estimates therefor, to accompany their proposals; that the plans, estimates and quantities of materials for the bridge superstructure, will not be adopted until after the 18th of November next.

## ENLARGEMENT OF THE ERIE CANAL.

Western subdivision of the middle division. Estimated quantities in arch and Composite culverts.

ITEMS.	ITEMS.											
	Arch culvert 4 feet chord, sec 189, station 22.	Comp'se culvert 1 space 8x4, sec. 189, sta. 74.	Arch culvert 4 feet chord, sta. 143.	Arch culvert 4 feet chord, sec. 191, sta. 222.	Comp'te culvert, 1 space 2 x 3, station 176.	Composite cul- vert, 1 space 3x4, section 192, sta. 305.	Arch culvert 6 feet chord, section 197, station 682.	Arch culvert, 4 fe. chord, sec- tion 201, sta- tion 997.	Arch culvert, 4 fe. chord, sec- tion 201, sta- tion 1029.	Composite cul- vert, 1 space, 3x3, sec. 204, station 178.	Composite cul- vert 1 space, 3x3, section 205, sta. 178.	
Cubic yards excavation of earth, .....	650	900	650	650	700	1,200	700	950	950	955	1,514	
do quarried rock, .....	.....	200	.....	.....	.....	400	.....	.....	.....	.....	.....	
padding, .....	30	80	30	30	30	30	5	30	30	12	11	
masonry in abutments and wings, .....	100	86	100	100	50	90	126	100	150	56	78	
do arches, .....	5	.....	40	40	.....	.....	51	40	40	.....	.....	
do coping, .....	5	5	5	5	5	5	5	5	5	3	5	
do concrete, .....	10	40	10	10	40	40	10	10	10	40	43	
Feet b. m. hemlock timber and plank, .....	10,559	14,895	10,850	10,859	13,369	14,895	14,341	10,661	10,661	12,911	12,533	
pine do do .....	2,340	10,175	2,340	2,340	9,753	10,175	2,776	2,349	2,349	9,144	9,676	
oak do do .....	200	517	200	200	428	517	200	200	200	640	582	
Pounds spikes and nails, .....	50	50	50	50	40	50	60	50	50	50	50	

# **ERIE CANAL ENLARGEMENT.—MIDDLE DIVISION— WESTERN SUB-DIVISION.**

## **ESTIMATED QUANTITIES IN SECTIONS.**

### *Section No. 192.*

53,600	Cubic yards earth excavation.
1,000	" quarried rock excavation.
100	" solid "
12,500	" embankment.
5,600	" lining.
6,100	" puddling.
6,900	" slope and pavement wall.
70	" masonry in receiver walls.
150	" vertical or battered wall laid dry.
100 feet,	B. M. white oak.
500	" white pine.
7,000	" hemlock.

### *Section No. 193.*

59,200	cubic yards earth excavation.
5,600	" quarry rock excavation.
26,500	" embankments.
6,000	" lining.
3,800	" puddling.
4,500	" slope and pavement wall.
70	" masonry in receiver walls.
2,500	" vertical or battered wall laid dry.
18,000 feet	B. M. white oak.
500	" white pine.
7,000	" hemlock.
80 rods	road to construct.

N. B. The contractor to whom the above section may be awarded, will be required to receive at the places where now delivered, and put in the work, about 300 cubic yards of cobble stone delivered by former contractors, for which [he] will be charged at the rate of fifty-five cents per cubic yard.

*Section No. 195.*

117,000	cubic yards	earth excavation.
1,000	"	rock which may be excavated without blasting.
1,000	"	embankment.
4,400	"	lining.
200	"	puddling.
5,400	"	slope and pavement wall.

*Section No. 197.*

65,500	cubic yards	earth excavation.
1,500	"	rock which may be excavated without blasting.
27,500	"	embankment.
3,200	"	lining.
2,500	"	puddling.
8,900	"	slope and pavement wall.
1,400	"	vertical or battered wall laid dry.
10,000	feet B. M.	white oak.

*Section No. 199.*

96,670	cubic yards	earth excavation.
1,000	"	rock which may be excavated without blasting.
27,000	"	embankment.
6,600	"	lining.
7,160	"	puddling.
8,300		slope and pavement wall.

*Section No. 203.*

9,000	cubic yards	earth excavation.
321,500	"	embankment.
4,000	"	lining.
11,152	"	puddling.
6,200	"	slope and pavement wall.
360,000	feet B. M.	hemlock plank for sheet piling.

*Section No. 204.*

57,762	cubic yards excavation.
232,205	" embankment.
5,410	" lining.
15,226	" puddling.
8,680	" slope and pavement wall.
176	" vertical wall laid dry.
230,496	feet B. M. hemlock plank for sheet pilings, &c.
144	rods road to construct.

*Section No. 205.*

58,700	cubic yards excavation.
4,600	" embankment.
2,764	" lining.
3,312	" puddling.
4,412	" slope walls.
97	" vertical wall laid dry.

*Section No. 206.*

55,948	cubic yards excavation.
1,715	" embankment.
3,492	" lining.
2,788	" puddling.
5,200	" slope and pavement wall.

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## **NEW-YORK STATE CANALS.**

### **WESTERN DIVISION.**

Comprising the Eastern and Western, or First and Second Sub-divisions of the  
Enlargement of the Erie Canal and the Genesee Valley Canal.

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## **QUANTITIES,**

**PUBLICLY EXHIBITED FOR THE LETTING AT ALBANY, NOV. 18, 1851.**

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**QUANTITIES FOR SECTIONS,**  
*Exhibited at letting, Nov. 18th, 1851, for the first Sub-division of the Western Division, extending from the east line of Wayne county, to the west line of Barre, Orleans county.*

SECTION NO.	Length of Section in chains.	CUBIC YARDS.										M. FEET, B. M.				Rods.	Lbs.
		Earth excavation.	Excavation in re- moving ditches and slope wall.	Excavating rock requiring blast- ing.	Excavating rock not requiring blasting.	Embankment.	Lining.	Puddling earth.	Slope and pave- ment walls.	Vertical or batter- cement.	Vertical or batter- ed wall laid dry.	White oak timber, plank, &c.	White pine tim- ber, plank, &c.	Hemlock & spruce timber, plank, &c.			
297	124 39-100	48,500	100	300		243,700	16,900	19,400	12,900	200					32	Spikes and nails.	
298	82 47-100	48,900	200			26,500	9,800	8,300	6,000						109	Road to be con- structed.	
299	94	53,300	300			35,600	9,800	10,000	6,800								
310	96 41-100	47,900	200			38,700	10,700	19,900	7,000						49		
311	88	52,400	200		3,500	49,300	12,400	8,600	6,200						96		
312	23	21,100	100		3,275	6,800	1,900	4,000	1,200	2,100	5,800		30,900				
313	69 86-100	41,200	300			18,000	8,200	6,800	7,000								
314	82 44-100	52,400	200			51,600	10,400	11,700	6,500						216		
315	83 16-100	36,400	100			60,000	7,500	9,100	6,000								
316	96	98,300				36,500	14,200	11,100	8,200	200							
317	87	148,900				1,500	18,900	1,200	8,800								
318	103	128,500				78,600	18,200	14,700	11,200	200							
323	83 82-100	69,700	300			22,700	9,800	8,000	8,800						40		
329	84 24-100	31,400	100			29,800	10,000	9,200	8,100						240		
332	83	46,200	200			17,700	8,500	10,200	7,300						48		
334	84	56,300	200			30,500	8,900	7,200	4,600								
335	76	56,900	200	100		118,600	9,000	12,500	5,600	10	2,000		1,000		238		
336	73	40,300	200			29,100	6,700	6,600	6,400				1,200		216		
338	80	55,400	300			26,700	9,300	8,400	6,100								
337	80	53,700	300			31,600	9,400	8,500	6,200						70		
338	80	52,800	200			27,600	10,400	10,500	8,600						114		
339	81	86,300	200			44,900	10,700	13,400	8,900								
341	83	48,000	300			49,800	13,200	8,200	7,600								

# QUANTITIES.—(CONTINUED.)

SECTION.	Length of rods in chains.	CUBIC YARDS.										M. FEET B. M.				Rods.	Lbs.
		Earth excavated.	Excavation in re- moving dock- ing and slope wall.	Excavating rock requiring blast- ing.	Excavating rock not requiring blasting.	Nonpermeable.	Lining.	Putting earth.	Slope and pave- ment walls.	Vertical or bat- tered walls laid in cement.	Vertical or better- rod walls laid dry.	White oak timber, plank, &c.	White pine timber plank, &c.	Hemlock & spruce timber, plank, &c.	Road to be con- structed.		
243	70	20,700	300	.....	.....	18,100	6,100	4,400	6,200	.....	.....	.....	.....	.....	.....	.....	Spikes and nails.
244	70	41,300	200	.....	.....	19,700	4,000	4,400	4,000	.....	.....	.....	.....	.....	.....	.....	6,800
245	70	13,800	400	.....	.....	9,000	3,300	3,300	3,000	.....	.....	.....	.....	.....	.....	.....	6,800
246	99	60,500	.....	.....	.....	8,500	4,400	5,000	400	.....	.....	.....	.....	559,700	.....	.....	6,000
247	99	121,400	.....	.....	.....	.....	4,400	1,600	400	.....	.....	.....	.....	559,700	.....	.....	6,000
248	67 00-100	118,400	.....	.....	.....	.....	3,300	.....	300	.....	.....	.....	.....	439,600	.....	.....	6,000
249	67 00-100	146,500	.....	.....	.....	.....	3,300	.....	300	.....	.....	.....	.....	439,600	.....	.....	6,000
250	53	218,900	.....	.....	.....	.....	3,300	.....	400	.....	.....	.....	.....	524,200	.....	.....	6,100
251	80	216,000	.....	.....	.....	.....	3,300	.....	400	.....	.....	.....	.....	524,200	.....	.....	6,100
252	83 61-100	164,700	.....	.....	.....	.....	4,100	.....	400	.....	.....	.....	.....	524,200	.....	.....	6,100
253	80	64,800	.....	.....	.....	1,900	3,900	.....	400	.....	.....	.....	.....	524,200	.....	.....	6,100
254	83	64,500	.....	.....	.....	29,700	4,100	.....	400	.....	.....	.....	.....	524,200	.....	.....	6,100
255	99 82-100	.....	.....	.....	.....	1,075,200	4,900	47,600	300	.....	.....	.....	.....	644,000	.....	.....	7,800
256	75 28-100	20,200	.....	.....	.....	394,500	3,700	27,100	400	.....	.....	.....	.....	498,200	.....	.....	5,700
257	80 18-100	44,400	.....	.....	.....	238,900	3,900	26,700	400	.....	.....	.....	.....	526,300	.....	.....	6,100
258	53 04-100	32,800	.....	.....	.....	.....	2,700	6,800	300	.....	.....	.....	.....	394,500	.....	.....	4,200
259	88 50-100	5,000	.....	.....	.....	1,188,900	4,300	32,900	400	.....	.....	.....	.....	566,700	.....	.....	6,800
260	107	67,000	.....	11,700	.....	51,000	6,300	18,900	8,600	.....	.....	.....	.....	180,500	.....	.....	6,800
261	115 12-100	85,400	.....	27,000	.....	300	3,500	500	8,400	.....	.....	.....	.....	87,400	.....	.....	6,000
262	80 7-100	95,500	.....	10,700	.....	25,400	3,500	6,000	300	.....	.....	.....	.....	75,500	.....	.....	6,000
263	80	40,900	.....	4,300	.....	58,700	3,500	10,300	300	.....	.....	.....	.....	49,500	.....	.....	4,500
264	81 19-100	52,100	.....	.....	.....	15,800	2,600	7,500	200	.....	.....	.....	.....	62,700	.....	.....	4,500
265	80	86,800	.....	.....	.....	8,700	3,500	800	300	.....	.....	.....	.....	75,400	.....	.....	5,000

\*NOTE.—Sections from No. 245 to 260 inclusive, of the above, are on the Independent Line from Maesdon to Brighton.

270	80	51,100	.....	4,500	1,900	2,500	2,300	300	.....	75,400	.....	580,000	.....	6,000
271	75 49-100	87,500	.....	.....	1,700	3,500	3,600	300	.....	74,000	.....	570,000	.....	6,900
272	75 83-100	59,000	.....	2,000	21,900	3,500	4,500	300	.....	74,800	.....	578,000	.....	6,900
273	80	71,000	.....	5,300	27,700	3,500	3,500	300	.....	75,800	.....	580,800	.....	6,000
274	80	71,900	.....	.....	8,800	3,500	3,500	300	.....	75,400	.....	580,800	.....	6,000
275	80	80,900	.....	.....	9,200	3,500	2,800	300	.....	75,400	.....	580,800	.....	6,000
276	80	88,600	.....	.....	3,900	3,500	2,600	300	.....	75,400	.....	580,800	.....	6,000
277	80	83,400	.....	.....	4,800	3,500	2,200	300	.....	75,400	.....	580,800	.....	6,000
278	80	92,700	.....	.....	4,300	3,500	2,400	300	.....	75,400	.....	580,800	.....	6,000
279	80	80,900	.....	.....	.....	3,500	3,200	300	.....	75,400	.....	580,800	.....	6,000
280	80	95,000	.....	9,900	4,300	3,500	3,200	300	.....	75,400	.....	580,800	.....	6,000
281	80	78,700	.....	11,800	.....	3,500	800	300	.....	75,400	.....	580,800	.....	6,000
282	83 35-100	80,500	.....	11,200	1,600	3,500	1,800	300	.....	75,400	.....	580,800	.....	6,000
283	40	28,200	.....	6,900	.....	3,500	2,500	300	.....	78,000	.....	602,900	.....	6,300
284	40	42,300	.....	11,000	.....	1,800	2,200	100	.....	37,700	.....	290,400	.....	3,000
285	83 98-100	79,900	.....	3,200	8,700	3,800	7,500	300	.....	81,900	.....	631,200	.....	6,500
286	83 98-100	49,900	.....	10,800	22,400	3,800	6,200	1,500	.....	81,900	.....	631,200	.....	6,500
287	49 50-100	43,200	.....	5,200	1,400	1,800	.....	600	.....	31,000	.....	306,400	.....	8,700
288	49 50-100	26,800	.....	.....	.....	1,500	.....	900	.....	40,000	.....	305,000	.....	6,800
289	25 65-100	16,700	.....	.....	353,800	1,400	10,300	200	.....	13,800	.....	60,500	.....	2,100
290	43	8,700	.....	.....	1,500	400	.....	900	.....	33,500	.....	306,400	.....	8,700
291	10 94-100	68,900	.....	.....	500	1,800	.....	900	.....	53,500	.....	306,400	.....	8,700
292	49 50-100	58,300	.....	.....	.....	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
293	49 50-100	74,300	.....	.....	.....	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
294	49 50-100	56,600	.....	.....	.....	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
295	49 50-100	51,500	.....	.....	.....	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
296	49 50-100	43,900	.....	.....	.....	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
297	49 50-100	51,500	.....	.....	.....	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
298	49 50-100	47,700	.....	.....	4,000	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
299	49 50-100	50,000	.....	.....	.....	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
300	49 50-100	47,800	.....	.....	.....	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
301	49 50-100	59,600	.....	.....	.....	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
302	49 50-100	52,800	.....	.....	800	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
303	49 50-100	47,400	.....	.....	.....	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
304	49 50-100	48,100	.....	1,100	2,500	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
305	53 83-100	36,100	.....	.....	20,900	1,800	.....	1,000	.....	60,800	.....	341,900	.....	9,800
306	49 50-100	58,900	.....	.....	6,800	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
307	49 50-100	50,700	.....	.....	4,400	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
308	49 50-100	50,700	.....	.....	.....	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700
309	49 50-100	50,700	.....	.....	.....	1,500	.....	900	.....	53,500	.....	306,400	.....	8,700

† Sections from No. 289 to 291 inclusive, of the above, are on the Independent Line at Holley, across the "Great Bend."

## QUANTITIES—(CONTINUED.)

SECTIONS.	Length of sections in chains.	CUBIC YARDS.								M. FEET B. M.				Roads.	Lae.
		Earth excavation.	Excavation in re-mov-ing dock-ing and slope wall.	Excavating rock re-quir-ing blast-ing.	Excavating rock re-quir-ing blast-ing.	Excavating rock re-quir-ing blast-ing.	Excavating rock re-quir-ing blast-ing.	Excavating rock re-quir-ing blast-ing.	Excavating rock re-quir-ing blast-ing.	White oak timber plank, &c.	White pine tim-ber, plank, &c.	Hemlock & spruce timber, plank, &c.	Road to be con-structed.		
310	39 50-100	35,400								42,800		245,100			7,000
311	65	71,400		100						87,800		423,800			12,100
312	49 60-100	41,300								53,500		306,400			8,700
313	49 60-100	47,200								53,500		306,400			8,700
314	49 60-100	44,300								53,500		306,400			8,700
315	35 10-100	28,500								37,100		212,300			6,000
QUANTITIES FOR SECTIONS,															
On the old line of canal, from Macedon to Brighton. Numbering of sections corresponds with numbers observed on Independent line.															
246	179 33-100	107,000								66,600		284,100			
247	88 36-100	49,700								4,300		140,000			
248	163 63-100	101,500								8,000		258,200			
249	127 48-100	83,900								7,700		249,900			
250	126 68-100	77,200								6,200		206,900			
251	50 18-100	51,700								1,500		127,200			
252	78 80-100	46,400								8,700		124,900			
253	81 82-100	36,700								1,200		127,200			
254	81 45-100	28,000								4,000		129,600			
255	114 32-100	106,700								7,500		129,600			
256	77	62,200								4,800		181,100			
257	77	49,600								900		122,000			
258	150 80-100	99,500								5,900		123,000			
259	77	64,500								9,000		247,900			
260	143	119,600								2,800		122,000			
										3,300		221,800			

† Sections No. 289 to 291, inclusive, as shown below, are on Old Line of Canal, through the village of Holley, and numbers of sections correspond with numbering on Independent Line.

289	49 60-100	45,800	.....	1,432	.....	907	.....	53,488	.....	306,439	.....	8,712
290	49 60-100	43,790	.....	45,790	.....	907	.....	53,488	.....	306,439	.....	8,712
291	49 60-100	57,260	.....	4,240	.....	907	.....	53,488	.....	306,439	.....	8,712

Section on Independent line extending from a point 40 chains east of Orr's bridge, westerly, to the high embankment in the village of Holley.

63 chains.	132,680	.....	300,000	.....	11,100
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# QUANTITIES FOR CULVERTS.

Exhibited at letting, Nov. 18th, 1851, for the first sub-division of the western division.

LocaTION	Number of culvert on section	Kind of Culvert.	Span.	CUBIC YARDS.										M. FEET, B. M.				LIN'L FEET.	POUNDS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
				Earth excavation.	Rock requiring blasting.	Rock not requiring blasting.	Embankment.	Lining.	Pudding earth.	Slope and pavement wall.	Masonry in arches.	Masonry—all other.	Concrete masonry.	Procuring and puddling gravel.	White oak timber, plank, &c.	White pine timber, plank, &c.	Hemlock and spruce timber, plank, &c.		Piles.	Spikes and nails.	Lead.	Wrought iron.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Sec. 217	1	Composite, .....	3	1,650	...	...	1,250	3,000	3,000	...	...	...	140	95	450	1,500	50,400	28,250	...	...	300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...





## QUANTITIES—(CONTINUED.)

Sec.	L C	Number of culverts	Kind of culvert.	Span.	CUBIC YARDS.										M. FEET, B. M.				LIN'L FEET.	POUNDS.			
					Earth excavation.	Rock requiring blasting.	Rock not requiring blasting.	Embankment.	Lining.	Pudding earth.	Slope and pavement.	Masonry in arches.	Masonry—all other.	Concrete masonry.	Gravel.	White oak timber, plank, &c.	White pine timber, plank, &c.	Hemlock and spruce timber, plank, &c.		Piles.	Spikes and Nails.	Lead.	Wrought Iron.
309		1	Box,.....	2 ft.	500	.....	.....	200	150	150	5	.....	76	.....	.....	.....	.....	7,220	.....	200	20	50	
311		1	Other creek, ....	2 }	2,000	.....	.....	700	150	150	50	82	671	.....	.....	.....	.....	40,341	.....	400	200	400	
312		1	Box,.....		500	.....	.....	200	150	150	5	.....	76	.....	.....	.....	.....	.....	7,220	.....	200	20	50
313		1	"	2 }	500	.....	.....	200	150	150	5	.....	76	.....	.....	.....	.....	7,220	.....	200	20	50	
314		1	"	3 }	700	.....	.....	300	200	200	5	.....	103	.....	.....	.....	.....	9,630	.....	250	30	50	
CULVERTS ON OLD LINE, FROM MACEDON TO BRIGHTON.																							
243		1	Arch composite,.....	.....	2,000	.....	.....	1,700	300	400	.....	12	95	.....	.....	.....	.....	14,100	88,800	200	.....	100	
252		1	Arch,.....	6	700	.....	.....	700	250	100	.....	85	223	.....	.....	.....	.....	12,000	11,400	200	.....	100	
253		1	"	4	4,400	.....	.....	4,400	250	150	.....	95	195	.....	.....	.....	.....	16,600	12,000	200	.....	60	
253		1	"	4	2,400	.....	.....	2,400	250	150	.....	80	170	.....	.....	.....	.....	11,000	10,800	150	.....	50	
254		1	"	30	60,000	.....	.....	60,000	2,000	1,000	.....	1,440	1,749	.....	.....	.....	.....	56,000	96,000	34,100	.....	300	
255		1	Box,.....	3	500	.....	.....	500	200	100	.....	.....	168	.....	.....	.....	.....	11,600	5,040	100	.....	50	
257		1	Arch,.....	6	700	.....	.....	700	250	100	.....	85	223	.....	.....	.....	.....	12,000	11,400	200	.....	100	
258		1	"	7	700	.....	.....	700	250	100	.....	85	223	.....	.....	.....	.....	12,000	11,400	200	.....	100	
258		1	"	3	500	.....	.....	500	200	100	.....	.....	168	.....	.....	.....	.....	11,600	5,040	100	.....	50	
259		2	Box,.....	3	500	.....	.....	1,000	400	200	.....	.....	336	.....	.....	.....	.....	23,000	10,080	200	.....	100	
259		1	"	16	1,000	.....	.....	1,000	400	200	.....	.....	336	.....	.....	.....	.....	14,000	10,080	200	.....	80	
260		1	Arch,.....	3	500	.....	.....	500	200	100	.....	107	281	.....	.....	.....	.....	11,600	5,040	100	.....	50	







# QUANTITIES FOR ABUTMENTS,

Exhibited at Lansing, November 18th, 1851, for the first Sub-division of the Western Division, extending from the east line of Wayne county to west line of Barre, Orleans county.

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of bridge.	Span, feet.	CUBIC YARDS.						Feet B.M.		Pounds.	
				Earth excavation.	Embankment.	Pudding earth.	Slope and pavement wall.	Masonry in abutments and wings.	Procuring and putting gravel.			Loose stone.	Spike and nails.
Section 207.....	1	Road,	80	550	500	40	10	182	15	3,900	15	60	60
208.....	1	do	80	530	500	40	10	182	15	3,900	15	60	60
209.....	1	do	80	600	500	40	10	182	15	3,900	15	60	60
210.....	1	Farm,	80	366	400	30	8	154	10	3,600	15	50	50
210.....	2	do	80	530	400	30	8	154	10	3,600	15	50	50
212.....	1	Road,	82	1,225	500	40	10	182	15	3,900	15	60	60
212.....	2	do	85	525	500	40	10	182	15	3,900	15	60	60
213.....	1	Farm,	80	330	400	30	8	154	10	3,600	15	50	50
213.....	2	do	80	530	400	30	8	154	10	3,600	15	50	50
214.....	1	do	80	225	400	30	8	154	10	3,600	15	50	50
215.....	1	do	80	530	400	30	8	154	10	3,600	15	50	50
216.....	1	Road,	80	560	500	40	10	182	15	3,900	15	60	60
216.....	2	do	80	565	500	40	10	182	15	3,900	15	60	60
216.....	3	do	80	455	500	40	10	182	15	3,900	15	60	60

217	1	Farm, .....	80	660	400	30	8	154	10	3,600	15	50
217	2	Road, .....	80	600	500	40	10	182	15	3,900	15	60
218	1	Farm, .....	80	650	400	30	8	154	10	3,900	15	50
218	2	Road, .....	80	650	500	40	10	182	15	3,900	15	60
218	3	Farm, .....	80	150	400	30	8	154	10	3,600	15	50
218	4	Road, .....	80	150	500	40	10	182	15	3,900	15	60
219	1	do .....	100	510	500	40	10	182	15	3,900	15	60
219	2	do .....	112	356	500	40	10	182	15	3,900	15	60
219	3	do .....	91	1,086	500	40	10	182	15	3,900	15	60
228	1	do .....	80	500	500	40	10	182	15	3,900	15	60
228	2	do .....	80	550	500	40	10	182	15	3,900	15	60
228	3	Farm, .....	80	530	400	30	8	154	10	3,600	15	50
229	1	Change, .....	80	660	500	40	10	182	15	3,900	15	60
231	1	Road, .....	82	1,393	500	40	10	182	15	3,900	15	60
231	2	do .....	80	1,597	500	40	10	182	15	3,900	15	60
232	1	do .....	80	660	500	40	10	182	15	3,900	15	60
233	1	do .....	80	650	500	40	10	182	15	3,900	15	60
234	1	do .....	80	100	500	40	10	182	15	3,900	15	60
234	2	do .....	80	426	500	40	10	182	15	3,900	15	60
235	1	do .....	80	650	500	40	10	182	15	3,900	15	60
235	2	do .....	80	960	500	40	10	182	15	3,900	15	60
237	1	do .....	80	1,006	500	40	10	182	15	3,900	15	60
238	1	Farm, .....	80	160	400	30	8	154	10	3,600	15	50
239	1	do .....	80	652	400	30	8	154	10	3,600	15	50
239	2	do .....	80	625	400	30	8	154	10	3,600	15	50
241	1	Road, .....	80	650	500	40	10	182	15	3,900	15	60
241	1	Change, .....	80	560	400	30	8	154	15	3,900	15	60

QUANTITIES—(CONTINUED.)

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[ASSEMBLY

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of bridge.	Span, feet.	CUBIC YARDS.						Feet B.M.		Pounds.	
				Earth excavation.	Embankment.	Pudding earth.	Slope and pavement wall.	Masonry in abutments and wing.	Procuring and puddling gravel.			Loose stone.	Spikes and nails.
Section 242.....	1	Road, .....	80	963	500	40	10	182	15	3,900	15	60	
242.....	2	Farm, .....	80	650	400	30	8	154	10	3,600	15	50	
243.....	1	Road, .....	80	660	500	40	10	182	15	3,900	15	60	
245.....	1	Road and change, .....	80	987	500	40	10	210	25	4,000	25	100	
*246.....	1	Road, .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*247.....	1	do .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*249.....	1	do .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*252.....	1	do .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*252.....	2	Farm, .....	80	160	200	.....	.....	154	.....	3,196	.....	.....	
*253.....	1	Road, .....	80	160	200	.....	.....	182	.....	3,166	.....	.....	
*254.....	1	do .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*256.....	1	Farm, .....	80	160	200	.....	.....	154	.....	3,196	.....	.....	
*256.....	2	Road, .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*257.....	1	Farm, .....	80	160	200	.....	.....	154	.....	3,196	.....	.....	
*257.....	2	Road, .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*257.....	3	Farm, .....	80	160	200	.....	.....	154	.....	3,196	.....	.....	

*258	1	Farm,	80	160	200	....	....	154	....	3,196	....	50
*258	2	Road,	80	160	200	....	....	182	....	3,666	....	50
*260	1	do	80	160	200	....	....	182	....	3,666	....	50
*260	2	Farm,	80	160	200	....	....	154	....	3,196	....	50
*260	3	Road,	80	160	200	....	....	182	....	3,666	....	50
262	1	do	80	160	200	....	....	182	....	3,666	....	50
262	2	do	120	250	450	....	....	402	....	3,396	....	50
+266	1	do	....	620	620	....	12	342	25	5,000	....	50
267	1	Farm,	....	320	300	....	8	176	10	3,600	....	50
268	1	Road,	....	500	500	....	10	206	15	3,900	....	50
270	1	Farm,	....	320	300	....	8	176	10	3,600	....	50
270	2	Road,	....	500	500	....	10	206	15	3,900	....	50
270	3	do	....	500	500	....	10	206	15	3,900	....	50
270	4	do	....	500	500	....	10	206	15	3,900	....	50
270	5	Farm,	....	320	300	....	8	176	10	3,600	....	50
271	1	do	....	320	300	....	8	176	10	3,600	....	50
272	1	Road,	....	500	500	....	10	206	15	3,900	....	50
272	1	do	....	500	500	....	10	206	15	3,900	....	50
273	1	do	....	500	500	....	10	206	15	3,900	....	50
274	1	do	....	500	500	....	10	206	15	3,900	....	50
275	1	Farm,	....	320	300	....	8	176	10	3,600	....	50
276	1	Road,	....	500	500	....	10	268	15	4,920	....	60
277	1	do	....	500	500	....	10	206	15	3,900	....	50
277	2	do	....	500	500	....	10	206	15	3,900	....	50
278	1	do	....	500	500	....	10	206	15	3,900	....	50
279	1	do	....	500	500	....	10	206	15	3,900	....	50

\* Bridges from section 246 to 260, inclusive, are on Independent Line from Macon to Brighton. † The span will vary from 80 to 100 feet from section 266 to 284.



## QUANTITIES—(CONTINUED.)

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of work.	Span—feet.	CUBIC YARDS.						Feet B.M.		POUNDS.	
				Earth excavation.	Embankment.	Pudding earth.	Slope and pavement wall.	Masonry in abutments and wings.	Procuring and puddling gravel.	Hemlock and spruce.	Loose stone.	Spikes and nails.	
Section 280.....	1	Road,.....	....	500	500	....	10	206	15	3,900	....	50	50
281.....	1	do.....	....	500	500	....	10	206	15	3,900	....	50	50
281.....	2	do.....	....	500	500	....	10	206	15	3,900	....	50	50
282.....	1	Farm,.....	....	320	300	....	8	176	10	3,600	....	50	50
286.....	....	Road,.....	....	500	500	....	10	206	15	3,900	....	50	50
287.....	1	do.....	....	500	500	....	10	206	15	3,900	....	50	50
287.....	2	do.....	....	500	500	....	10	206	15	3,900	....	50	50
*289.....	1	do.....	....	500	500	....	10	206	15	3,900	....	50	50
*290.....	1	do.....	....	500	500	....	10	206	15	3,900	....	50	50
*291.....	1	do.....	....	500	500	....	10	206	15	3,900	....	50	50
292.....	1	do.....	....	500	500	....	10	206	15	3,900	....	50	50
293.....	1	Farm,.....	....	320	300	....	8	176	10	3,600	....	50	50
294.....	1	Road,.....	....	500	500	....	10	206	15	3,900	....	50	50
294.....	2	do.....	....	500	500	....	10	206	15	3,900	....	50	50
296.....	1	do.....	....	500	500	....	10	206	15	3,900	....	50	50
297.....	1	Farm,.....	....	320	300	....	8	176	10	3,600	....	50	50

298	1	do	320	300	8	176	10	3,600	50
300	1	Road,	500	500	10	206	15	3,900	50
300	2	do	500	500	10	206	15	3,900	50
302	1	do	500	500	10	206	15	3,900	50
303	1	do	500	500	10	206	15	3,900	50
304	1	do	500	500	10	206	15	3,900	50
305	1	do	500	500	10	206	15	3,900	50
308	1	Farm,	320	300	8	176	10	3,600	50
309	1	Road,	500	500	10	206	15	3,900	50
311	1	do	500	500	10	206	15	3,900	50
312	1	Farm,	320	300	8	176	10	3,600	50
313	1	Road,	500	500	10	206	15	3,900	50
313	2	Farm,	320	300	8	176	10	3,600	50
314		Extension,	800	800	10	346	15	7,800	100

## BRIDGES ON OLD LINE AT HOLLEY.

289	1	Road,	500	500	10	206	15	3,900	50
290	1	do	500	500	10	206	15	3,900	50
291	1	do	500	500	10	206	15	3,900	50

\* Bridges on sections Nos. 289, 290 and 291, inclusive, are on Independent Line across "Great Bend" at Holley.

QUANTITIES—(CONTINUED.)  
BRIDGES ON OLD LINE, FROM MACEDON TO BRIGHTON.

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of bridge.	Span—feet.	CUBIC YARDS.						Feet E.M.	FOUNDS.	
				Earth excavation.	Embankment.	Puddling earth.	Slope and pavement wall.	Masonry in abutments and wings.	Protecting and puddling gravel.		Hamlock and spruce.	Loose stone.
Section 246.....	1	Road,	80	500	500	...	10	182	15	3,900	...	50
247.....	1	do	80	500	500	...	10	182	15	3,900	...	50
248.....	1	do	80	500	500	...	10	182	15	3,900	...	50
249.....	2	do	80	500	500	...	10	182	15	3,900	...	50
250.....	1	do	80	500	500	...	10	182	15	3,900	...	50
251.....	2	do	80	500	500	...	10	182	15	3,900	...	50
252.....	1	do	80	500	500	...	10	182	15	3,900	...	50
253.....	1	do	80	500	500	...	10	182	15	3,900	...	50
254.....	...	do	80	500	500	...	10	182	15	3,900	...	50
255.....	1	do	80	500	500	...	10	182	15	3,900	...	50
256.....	2	do	80	500	500	...	10	182	15	3,900	...	50
257.....	1	do	80	500	500	...	10	182	15	3,900	...	50
258.....	1	Farm,	80	320	300	...	10	182	15	3,900	...	50

258.....	2	Road,.....	80	500	500	....	10	182	15	3,900	....	50
258.....	3	do.....	80	500	500	....	10	182	15	3,900	....	50
259.....		do.....	80	500	500	....	10	182	15	3,900	....	50
260.....	1	do.....	80	500	500	....	10	182	15	3,900	....	50
260.....	2	do.....	80	500	500	....	10	182	15	3,900	....	50
260.....	3	do.....	80	500	500	....	10	182	15	3,900	....	50
260.....	4	do.....	80	500	500	....	10	182	15	3,900	....	50

## NOTICE TO PROPOSERS.

The right is herewith reserved to increase or diminish the span or width of bridges, to add sidewalks, when necessary, to commute for or dispense with the same, whenever the interests of the State may be promoted thereby.

# QUANTITIES FOR SUPERSTRUCTURE OF BRIDGES.

*Exhibited for letting November 18th, 1851,*

ITEMS.	WOODEN SUPERSTRUCTURE.				IRON SUPERSTRUCTURE.			
	STILLSON'S PLAN, NO. 1.				MARSH'S PLAN, NO. 2.			
	ROAD.				ROAD.			
	Single track and two sidewalks.	Single track and extensions.	Single track.	FARM.	One Roadway and two sidewalks.	Single track.	FARM.	FARM.
Pounds wrought iron, . . . . .	3,282	3,322	3,282	2,375	11,659	7,698	7,814	7,814
Pounds cast iron, . . . . .	536	536	536	536	9,871	9,048	8,360	8,360
Feet B. M. hemlock, . . . . .	3,458	4,334	3,458	2,392	4,590	4,590	3,240	3,240
oak, . . . . .	3,829	5,288	2,640	2,217	2,184	2,184	2,184	2,184
white pine, . . . . .	10,067	7,300	6,862	6,469	6,912	2,160	1,728	1,728
yel'w or so'rn pine, . . . . .	.....	.....	.....	.....	.....	.....	.....	.....
spruce, . . . . .	.....	.....	.....	.....	.....	.....	.....	.....
red beech, . . . . .	.....	.....	.....	.....	.....	.....	.....	.....
Pine shingles, . . . . .	.....	.....	.....	.....	.....	.....	.....	.....
Pounds spikes and nails, . . . . .	100	100	100	100	.....	.....	.....	.....
Square yards painting, . . . . .	358	140	136	130	200	150	150	150
Feet B. M. Paynizing, . . . . .	7,495	9,963	6,660	4,020	.....	.....	.....	.....

## QUANTITIES—(CONTINUED.)

ITEMS.	IRON SUPERSTRUCTURE.							WOODEN SUPER-STRUCTURE.	
	BEACH'S PLAN.				WHIPPLE'S PLAN, No. 4.			No. 5.	
	ROAD.		Single track.	FARM.	ROAD.		FARM.	ONE ROAD.	ONE FARM.
	2 roadw's and 2 sidewalks.	1 roadw'y and 2 sidewalks.			3 roadw's and 2 sidewalks.	1 roadw'y and two sidewalks.			
Pounds wrought iron, .....	16,857	12,236	7,802	3,900	14,600	8,300	4,700	2,271	1,174
cast iron, .....	11,235	7,852	6,753	4,338	15,300	9,200	9,000	.....	850
Feet B. M. hemlock, .....	9,502	8,858	6,386	3,296	5,000	3,600	4,800	7,088	.....
oak, .....	.....	.....	.....	.....	2,000	1,440	.....	1,296	3,411
white pine, ....	.....	.....	.....	.....	6,700	3,200	.....	9,407	2,568
yellow or southern pine, .....	.....	.....	.....	.....	.....	.....	.....	1,195	.....
spruce, .....	.....	.....	.....	.....	.....	.....	.....	933	.....
red beech, .....	.....	.....	.....	.....	.....	.....	.....	.....	1,750
Pine shingles, .....	.....	.....	.....	.....	.....	.....	.....	22,000	.....
Pounds spikes and nails, .....	.....	.....	.....	.....	.....	.....	.....	.....	50
Square yards painting, .....	400	330	270	270	200	125	125	270	130
Feet B. M. Paynizing, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....

RESOLUTION OF THE CANAL BOARD, ADOPTED OCT. 17th, 1861.

Resolved, That proposals will be received for both wood and iron bridges, upon each division of the Erie Canal; and that proposers for building iron bridges be requested to furnish plans and estimates therefor, to accompany their proposals; that the plans, estimates, and quantities of materials for bridge superstructure, will not be adopted until after the 15th of November next.



## QUANTITIES FOR MECHANICAL STRUCTURES—(CONTINUED.)

	Section 322.		Section 323.		Section 324.		Section 326.		Section 327.	
	Two bridge abutments.	Arch culvert six ft. chord.	Bridge abutments.	Arch culvert 18 ft. chord.	Two bridge abutments.	Two bridge abutments.	Double culvert 12 ft. chord, and mill culvert.	Arch culvert 12 ft. chord.	Bridge abutments.	
Cubic yards earth excavation,.....	400	400	300	1,000	500	600	2,000	1,000	200	
solid rock excavation,.....				800			800	500		
offpadding,.....	100	500	50	500	100	100	1,000	500	50	
masonry in arches,.....		125		240			250	150		
all other masonry,.....	600	180	340	200	640	780	750	250	300	
loose stone,.....										
Lbs. wrought iron, including spikes and nails,.....										
Feet (b. m.) white oak timber,.....										
Feet (b. m.) white pine timber,.....										
Feet (b. m.) hemlock timber,.....	10,000	22,000	6,000		11,000	13,000			5,000	



# QUANTITIES—(CONTINUED.)

248

[ASSEMBLY

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of bridge.	Span, feet.	CUBIC YARDS.						Feet B.M.		POUNDS.	
				Earth excavation.	Embankment.	Pudding earth.	Slope and pavement wall.	Masonry in abutments and wings.	Procuring and puddling gravel.			Loose stone.	Spikes and nails.
Section 242.....	1	Road, .....	80	963	500	40	10	182	15	3,900	15	60	
242.....	2	Farm, .....	80	650	400	30	8	154	10	3,600	15	50	
243.....	1	Road, .....	80	660	500	40	10	182	15	3,900	15	60	
245.....	1	Road and change, .....	80	987	500	40	10	210	25	4,000	25	100	
*246.....	1	Road, .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*247.....	1	do .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*249.....	1	do .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*252.....	1	do .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*252.....	2	Farm, .....	80	160	200	.....	.....	154	.....	3,196	.....	.....	
*253.....	1	Road, .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*254.....	1	do .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*256.....	1	Farm, .....	80	160	200	.....	.....	154	.....	3,196	.....	.....	
*256.....	2	Road, .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*257.....	1	Farm, .....	80	160	200	.....	.....	154	.....	3,196	.....	.....	
*257.....	2	Road, .....	80	160	200	.....	.....	182	.....	3,666	.....	.....	
*257.....	3	Farm, .....	80	160	200	.....	.....	154	.....	3,196	.....	.....	

*258	1	Farm,	80	160	200	154	3,196	50
*258	2	Road,	80	160	200	182	3,666	50
*260	1	do	80	160	200	182	3,666	50
*260	2	Farm,	80	160	200	182	3,666	50
*260	3	Road,	80	160	200	182	3,666	50
262	1	do	80	160	200	182	3,666	50
262	2	do	120	250	450	402	3,396	50
+266	1	do	....	620	620	12	5,000	50
267	1	Farm,	....	320	300	8	3,600	50
268	1	Road,	....	500	500	10	3,900	50
270	1	Farm,	....	320	300	8	3,600	50
270	2	Road,	....	500	500	10	3,900	50
270	3	do	....	500	500	10	3,900	50
270	4	do	....	500	500	10	3,900	50
270	5	Farm,	....	320	300	8	3,600	50
271	1	do	....	320	300	8	3,600	50
272	1	Road,	....	500	500	10	3,900	50
272	1	do	....	500	500	10	3,900	50
273	1	do	....	500	500	10	3,900	50
274	1	do	....	500	500	10	3,900	50
275	1	Farm,	....	320	300	8	3,600	50
276	1	Road,	....	500	500	10	4,920	60
277	1	do	....	500	500	10	3,900	50
277	2	do	....	500	500	10	3,900	50
278	1	do	....	500	500	10	3,900	50
279	1	do	....	500	500	10	3,900	50

\* Bridges from section 246 to 260, inclusive, are on Independent Line from Mason to Brighton.

† The span will vary from 80 to 100 feet from section 266 to 274.

# QUANTITIES—(CONTINUED.)

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of work.	Span—feet.	CUBIC YARDS.						FEET B.M.		POUNDS.
				Earth excavation.	Embankment.	Padding earth.	Slope and pavement wall.	Masonry in abutments and wings.	Procuring and padding gravel.	Hemlock and spruce.	Loose stone.	
Section 280.....	1	Road,.....	....	500	500	....	10	206	15	3,900	....	50
281.....	1	do .....	....	500	500	....	10	206	15	3,900	....	50
281.....	2	do .....	....	500	500	....	10	206	15	3,900	....	50
282.....	1	Farm,.....	....	320	300	....	8	176	10	3,600	....	50
286.....	.....	Road,.....	....	500	500	....	10	206	15	3,900	....	50
287.....	1	do .....	....	500	500	....	10	206	15	3,900	....	50
287.....	2	do .....	....	500	500	....	10	206	15	3,900	....	50
*289.....	1	do .....	....	500	500	....	10	206	15	3,900	....	50
*290.....	1	do .....	....	500	500	....	10	206	15	3,900	....	50
*291.....	1	do .....	....	500	500	....	10	206	15	3,900	....	50
292.....	1	do .....	....	500	500	....	10	206	15	3,900	....	50
293.....	1	Farm,.....	....	320	300	....	8	176	10	3,600	....	50
294.....	1	Road,.....	....	500	500	....	10	206	15	3,900	....	50
294.....	2	do .....	....	500	500	....	10	206	15	3,900	....	50
296.....	1	do .....	....	500	500	....	10	206	15	3,900	....	50
297.....	1	Farm,.....	....	320	300	....	8	176	10	3,600	....	50

298.....	1	do .....	320	300	.....	8	176	10	3,600	.....	50
300.....	1	Road,.....	500	500	.....	10	206	15	3,900	.....	50
300.....	2	do .....	500	500	.....	10	206	15	3,900	.....	50
302.....	1	do .....	500	500	.....	10	206	15	3,900	.....	50
303.....	1	do .....	500	500	.....	10	206	15	3,900	.....	50
304.....	1	do .....	500	500	.....	10	206	15	3,900	.....	50
305.....	1	do .....	500	500	.....	10	206	15	3,900	.....	50
308.....	1	Farm,.....	320	300	.....	8	176	10	3,600	.....	50
309.....	1	Road,.....	500	500	.....	10	206	15	3,900	.....	50
311.....	1	do .....	500	500	.....	10	206	15	3,900	.....	50
312.....	1	Farm,.....	320	300	.....	8	176	10	3,600	.....	50
313.....	1	Road,.....	500	500	.....	10	206	15	3,900	.....	50
313.....	2	Farm,.....	320	300	.....	8	176	10	3,600	.....	50
314.....		Extension.....	800	800	.....	10	346	15	7,800	.....	100

## BRIDGES ON OLD LINE AT HOLLEY.

289.....	1	Road,.....	500	500	.....	10	206	15	3,900	.....	50
290.....	1	do .....	500	500	.....	10	206	15	3,900	.....	50
291.....	1	do .....	500	500	.....	10	206	15	3,900	.....	50

\* Bridges on sections Nos. 289, 290 and 291, inclusive, are on Independent Line across "Great Bend" at Holley.

QUANTITIES—(CONTINUED.)  
BRIDGES ON OLD LINE, FROM MACEDON TO BRIGHTON.

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of bridge.	Span—feet.	CUBIC YARDS.						Feet B.M.		FOUNDS.	
				Earth excavation.	Embankment.	Pudding earth.	Slope and pavement wall.	Masonry in abutments and wings.	Procuring and padding gravel.	Hamlock and spruce.	Loose stone.	Spile and nails.	
Section 246.....	1	Road,	80	500	500	...	10	182	15	3,900	...	50	
247.....	1	do	80	500	500	...	10	182	15	3,900	...	50	
249.....	1	do	80	500	500	...	10	182	15	3,900	...	50	
249.....	2	do	80	500	500	...	10	182	15	3,900	...	50	
250.....	1	do	80	500	500	...	10	182	15	3,900	...	50	
250.....	2	do	80	500	500	...	10	182	15	3,900	...	50	
251.....	1	do	80	500	500	...	10	182	15	3,900	...	50	
252.....	1	do	80	500	500	...	10	182	15	3,900	...	50	
253.....	.....	do	80	500	500	...	10	182	15	3,900	...	50	
255.....	1	do	80	500	500	...	10	182	15	3,900	...	50	
255.....	2	do	80	500	500	...	10	182	15	3,900	...	50	
256.....	1	do	80	500	500	...	10	182	15	3,900	...	50	
256.....	2	do	80	500	500	...	10	182	15	3,900	...	50	
257.....	1	do	80	500	500	...	10	182	15	3,900	...	50	
258.....	1	Farm,	80	320	300	...	10	182	15	3,900	...	50	

258.....	2	Road, .....	80	500	500	....	10	182	15	3,900	....	50
258.....	3	do .....	80	500	500	....	10	182	15	3,900	....	50
259.....	1	do .....	80	500	500	....	10	182	15	3,900	....	50
260.....	2	do .....	80	500	500	....	10	182	15	3,900	....	50
260.....	3	do .....	80	500	500	....	10	182	15	3,900	....	50
260.....	4	do .....	80	500	500	....	10	182	15	3,900	....	50

## NOTICE TO PROPOSERS.

The right is herewith reserved to increase or diminish the span or width of bridges, to add sidewalks, when necessary, to commute for or dispense with the same, whenever the interests of the State may be promoted thereby.

# QUANTITIES FOR SUPERSTRUCTURE OF BRIDGES.

*Exhibited for letting November 18th, 1851,*

ITEMS.	WOODEN SUPERSTRUCTURE.				IRON SUPERSTRUCTURE.			
	STILLSON'S PLAN, NO. 1				MARSH'S PLAN, NO. 2.			
	ROAD.				ROAD.			
	Single track and two sidewalks.	Single track and extensions.	Single track.	FARM.	One Roadway and two sidewalks.	Single track.	FARM.	
Pounds wrought iron, .....	3,282	3,322	3,282	2,375	11,659	7,698	7,314	
Pounds cast iron, .....	536	536	536	536	9,871	9,048	8,360	
Feet B. M. hemlock, .....	3,458	4,334	3,458	2,392	4,590	4,590	3,240	
oak, .....	3,329	5,288	2,640	2,217	2,184	2,184	2,184	
white pine, .....	10,067	7,300	6,862	6,469	6,912	2,160	1,728	
yellow or soft pine, .....	.....	.....	.....	.....	.....	.....	.....	
spruce, .....	.....	.....	.....	.....	.....	.....	.....	
red beech, .....	.....	.....	.....	.....	.....	.....	.....	
Pine shingles, .....	.....	.....	.....	.....	.....	.....	.....	
Pounds spikes and nails, .....	100	100	100	100	.....	.....	.....	
Square yards painting, .....	358	140	186	130	200	150	150	
Feet B. M. Paynizing, .....	7,495	9,963	6,660	4,020	.....	.....	.....	





**QUANTITIES FOR MECHANICAL STRUCTURES,**  
*Exhibited for letting November 18th, 1851, for Second Sub-division of the Western Division.*

ITEMS.	SECTION 316.			SECTION 317.		SECTION 318.			SECTION 319.			SECTION 320.
	Bridge abutments.	Composite culvert.	Arch culvert 6 ft. chord.	Arch culvert 4 ft. chord.	Composite culvert.	Composite culvert.	Arch culvert 15 ft. chord.	Arch roadway.	Two composite culverts.	Two bridge abutments.	Bridge abutments.	
Cubic yards earth excavation, .....	300	1,600	1,000	500	1,600	1,000	1,000	1,000	4,600	400	200	
solid rock excavation, ..	.....	.....	.....	.....	.....	800	1,400	1,400	.....	.....	.....	
puddling, .....	50	300	500	300	300	500	500	1,000	800	100	50	
masonry in arches, .....	.....	.....	125	50	.....	240	240	300	.....	.....	.....	
all other masonry, .....	340	125	200	80	125	200	200	1,000	290	600	300	
loose stones, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Lbs. wro't iron inclu'g spikes & nails,	.....	500	.....	.....	500	.....	.....	.....	1,000	.....	.....	
Feet b. m. white oak timber, .....	.....	1,000	.....	.....	1,000	.....	.....	.....	2,000	.....	.....	
white pine timber, .....	.....	24,000	.....	1,000	24,000	.....	.....	.....	61,000	.....	.....	
hemlock timber, .....	5,000	8,000	22,000	11,000	8,000	.....	.....	.....	22,000	10,000	5,000	

## QUANTITIES FOR MECHANICAL STRUCTURES—(CONTINUED.)

ITEMS	SECTION 322.		SECTION 323.		SECTION 324.		SECTION 326.		SECTION 327.	
	Two bridge abutments.	Arch culvert six ft. chord.	Bridge abutment.	Arch culvert 18 ft. chord.	Two bridge abutments.	Arch culvert 12 ft. chord, and vert. 12 ft. mill culvert.	Double culvert 12 ft. chord, and vert. 12 ft. mill culvert.	Two bridge abutments.	Arch culvert 12 ft. chord.	Bridge abutment.
Cubic yards earth excavation, .....	400	400	300	1,000	500	600	2,000	1,000	200	200
solid rock excavation, .....	.....	.....	.....	800	.....	.....	800	500	.....	.....
of padding, .....	100	500	50	500	100	100	1,000	500	50	50
masonry in arches, .....	.....	125	.....	240	.....	.....	250	150	.....	.....
all other masonry, .....	600	180	340	200	640	780	750	250	300	300
loose stone, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lbs. wrought iron, including spikes and nails, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Feet (b. m.) white oak timber, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Feet (b. m.) white pine timber, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Feet (b. m.) hemlock timber, .....	10,000	22,000	6,000	.....	11,000	13,000	.....	.....	5,000	5,000

## QUANTITIES FOR MECHANICAL STRUCTURES—(CONTINUED.)

ITEMS.	SECTION 329.				SECTION 330.			SECTION 331.	
	Arch cul-verts 4 ft. abut'm'ts. chord.	Arch cul-verts 6 ft. chord.	Two bridge abut'm'ts.	Composite culvert.	Waste weir.	Two bridge abut'm'ts.	Arch cul-vert 18 ft. chord.	Arch cul-vert, 4 ft. chord.	Bridge abut'm'ts.
Cubic yards earth excavation, .....	500	400	500	1,600	500	400	1,000	500	300
solid rock excavation, .....	.....	.....	.....	.....	.....	.....	400	.....	.....
cubic yards of puddling, .....	300	500	100	300	300	100	500	300	50
masonry in arches, .....	50	125	.....	.....	.....	.....	280	50	.....
all other masonry, .....	80	200	640	125	75	600	220	80	340
loose stone, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lbs. wrought iron, including spikes and nails, .....	.....	.....	.....	500	500	.....	.....	.....	.....
Feet (b. m.) white oak timber, .....	.....	.....	.....	1,000	2,000	.....	.....	.....	.....
Feet (b. m.) white pine timber, .....	600	.....	.....	24,000	2,000	.....	.....	600	.....
Feet (b. m.) hemlock timber, .....	11,000	23,000	11,000	8,000	20,000	10,000	.....	11,000	6,000

## QUANTITIES—(CONTINUED.)

ITEMS.	SECTION 332.			SECTION 333.			SECTION 334.			SECTION 335.		
	Composite culverts.	Bridge abutments.	Composite culvert.	Arch culvert, 6 ft. chord.	Two bridge abutments.	Arch culvert, 6 ft. chord.	Arch culvert, 4 ft. chord.	Two arch culverts, four feet chord.	Two arch culverts, four feet chord.	Two bridge abutments.	Two bridge abutments.	Two bridge abutments.
Cubic yards earth excavation,.....	1,600	300	1,600	400	500	400	500	1,000	400			
embankment,.....												
puddling,.....	300	50	300	500	100	500	300	600	100			
masonry in arches,.....				125		125	50	100				
all other masonry,.....	125	340	125	200	640	200	80	100	600			
loose stone,.....												
Lbs. wrought iron, including spikes and nails,...	500		500									
Feet b. m., white oak timber, .....	1,000		1,000									
white pine timber,.....	24,000		24,000									
hemlock timber,.....	8,000	6,000	8,000	22,000	11,000	23,000	11,000	23,000	10,000			

## QUANTITIES—(CONTINUED.)

	Section 336.		Section 337.	Section 348 to 353		Section 360.			Section 361.
	Composite culverts	Two bridge abutments.	Waste weir.	Bridges and culverts.	Bridges and culverts.	Waste weir.	Two composite culverts.	Bridge abutments.	Bridge abutments.
Cubic yards earth excavation,.....	1,600	600	.....	2,000	2,000	700	5,000	200	200
embankment,.....	300	100	.....	.....	.....	300	1,300	50	50
puddling,.....	125	680	50	500	100	100	350	300	300
masonry in arches,.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
all other masonry,.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
loose stone,.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lbs. wrought iron, including spikes and nails,.....	500	.....	.....	.....	.....	500	1,000	.....	.....
Feet b. m. white oak timber,.....	1,000	.....	.....	5,000	5,000	2,000	1,000	.....	.....
white pine timber,.....	24,000	.....	.....	.....	.....	3,000	40,000	.....	.....
hemlock timber,.....	8,000	11,000	.....	20,000	20,000	30,000	25,000	5,000	5,000

## QUANTITIES—(CONTINUED.)

ITEMS.	SECTION 363.		SECTION 363.	SECTION 364.	SECTION 365.	SECTION 367.	SECTION 368.	SECTION 369.	SECTION 370.	Guard look at Bl'k Rock
	Bridge abutm'ts.	Composite culverts.	Bridge abutm'ts.	Bridge abutm'ts.	Bridge abutm'ts.	Composite culvert.	Bridge abutm'ts.	Bridge abutm'ts.	Bridge abutm'ts.	
Cable yards earth excavation, . . . . .	200	2,000	200	260	200	4,000	300	300	200	20,000
embankment, . . . . .	50	300	50	50	50	1,500	50	50	50	1,000
of puddling, . . . . .										1,000
masonry in arches, . . . . .	300	125	300	300	300	420	340	340	300	1,500
all other masonry, . . . . .										500
Loose stone, . . . . .										3,000
Lbs. wrought iron, including spikes & nails, . . . . .						1,000				30,000
c. Feet (b. m.) white oak timber, . . . . .						3,000				50,000
Feet (b. m.) white pine timber, . . . . .		24,000				50,000				180,000
Feet (b. m.) hemlock timber, . . . . .	5,000	8,000	5,000	5,000	5,000	30,000	6,000	6,000	5,000	

Superstructure of bridges, 12 feet wide, 2 each on sections 319, 322, 330, and 335. One each on sections 320, 324, 326, 327, 329, 334, 360, 361, 362, 363, 364, 365, 370, and sections 7, 8, and 14, Mountain Ridge.

Superstructure of bridges, 17 feet wide, 2 on section 336, and 1 each on sections 316, 321, 323, 324, 329, 331, 332, 334, 368, 369, and 14, Mountain Ridge.

Superstructure of Bridge, 17 feet wide, with side-walks on section 326.

**NOTICE TO PROPOSERS.**—The State reserves the right to change the form or dimensions of any of the proposed structures, and also to dispense with the construction of any of the proposed bridges, for which they may commute.

# QUANTITIES FOR SECTIONS.

*Exhibited at letting, November 18th, 1851, for the second sub-division of the western division.*

ITEMS.	Section No. 316.	Section No. 317.	Section No. 318.	Section No. 319.	Section No. 320.	Section No. 322.	Section No. 323.	Section No. 324.
	Length 80 chs.	Length 70 chs.	Length 90 chs.	Length 80 chs.	Length 46 chs.	Length 114 chs.	Length 80 chs.	Length 80 chs.
Cubic yds. earth excavation, .....	74,000	76,000	115,000	142,000	40,000	130,000	65,000	88,000
solid rock excavation, .....	.....	.....	.....	.....	5,000	.....	1,000	.....
quarried rock excavation, .....	.....	.....	.....	.....	35,000	2,000	1,000	.....
embankment, .....	10,000	6,500	66,000	6,000	4,500	17,000	20,000	4,000
lining, .....	10,000	8,300	10,000	10,000	6,000	14,000	10,000	10,000
of puddling, .....	4,000	5,000	5,000	5,000	5,000	6,000	6,000	5,000
slope and pave't wall, .....	1,200	1,000	1,400	1,200	1,000	1,700	1,200	1,200
Feet (board measure) hemlock, .....	540,000	470,000	600,000	530,000	310,000	760,000	540,000	550,000
Pounds spikes and nails, .....	4,000	4,000	5,000	4,000	2,500	6,000	4,000	4,000
Rods constructing road, .....	.....	20	.....	20	60	.....	.....	.....





## QUANTITIES—(CONTINUED.)

ITEMS.	Section No. 334.	Section No. 335.	Section No. 336.	Section No. 337.	Section No. 343 to 353.	Section No. 354 to 359.	Section No. 360.	Section No. 361.
	Length 80 cts.	Length 80 cts.	Length 80 cts.	Length 80 cts.	Length 480 cts.	Length 440 cts.	Length 80 cts.	Length 80 cts.
Cubic y'ds earth excavation, . . . . .	120,000	110,000	81,000	18,000	36,000	24,000	130,000	140,000
solid rock excavation, . . . . .	.....	.....	.....	1,000	.....	.....	.....	.....
quarried rock excavation, . . . . .	.....	.....	.....	.....	.....	.....	.....	.....
embankment, . . . . .	80,000	4,000	1,000	.....	12,000	18,000	.....	10,000
lining, . . . . .	10,000	10,000	10,000	.....	6,000	6,000	10,000	10,000
puddling, . . . . .	5,000	5,000	5,000	.....	.....	.....	5,000	5,000
slope and pavement wall, . . . . .	1,200	1,200	1,200	.....	7,000	7,000	1,200	30,000
Feet (board measure) hemlock, . . . . .	540,000	540,000	540,000	.....	1,500,000	1,500,000	540,000	540,000
Pounds spikes and nails, . . . . .	4,000	4,000	4,000	.....	24,000	24,000	4,000	4,000
Rods constructing road, . . . . .	160	.....	20	.....	.....	.....	170	320

## QUANTITIES—(CONTINUED.)

ITEMS.	Section No. 362.	Section No. 363.	Section No. 364.	Section No. 365.	Section No. 366.	Section No. 367.	Section No. 368.	Section No. 369.	Section No. 370.
	Length 80 chs.	Length 80' chs.	Length 80 chs.	Length 80 chs.	Length 80 chs.	Length 75 chs.	Length 80 chs.	Length 80 chs.	Length 45 chs.
Cubic y'ds earth excavation, .....	130,000	130,000	110,000	119,000	119,000	96,000	60,000	100,000	40,000
solid rock excavation, .....	.....	.....	.....	.....	.....	.....	.....	.....	60,000
quarried rock excavation, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
embankment, .....	10,000	.....	.....	.....	10,000	10,000	.....	.....	.....
lining, .....	10,000	10,000	10,000	10,000	10,000	10,000	6,000	6,000	.....
puddling, .....	5,000	5,000	5,000	5,000	5,000	5,000	.....	.....	.....
slope and pavem't wall, .....	25,000	1,200	1,200	1,200	40,000	9,000	600	600	.....
Feet (board measure) hemlock, .....	540,000	540,000	540,000	549,000	540,000	540,000	270,000	270,000	20,000
Pounds spikes and nails, .....	4,000	4,000	4,000	4,000	4,000	4,000	2,000	2,000	.....
Rods constructing road, .....	110	320	88	.....	.....	.....	.....	.....	.....

## NOTICE TO PROPOSERS.

The above estimate of quantities is for 80 feet mean width of water on section 316, and increasing regularly to 91 feet mean width on section 337. The estimate through sections 348 to 367, inclusive, is for 100 feet width of water; and for sections 368 to 370, for 150 feet of water.

WESTERN DIVISION—GENESEE VALLEY CANAL.  
*QUANTITIES exhibited at letting, Nov. 18th, 1851.*

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[Assembly

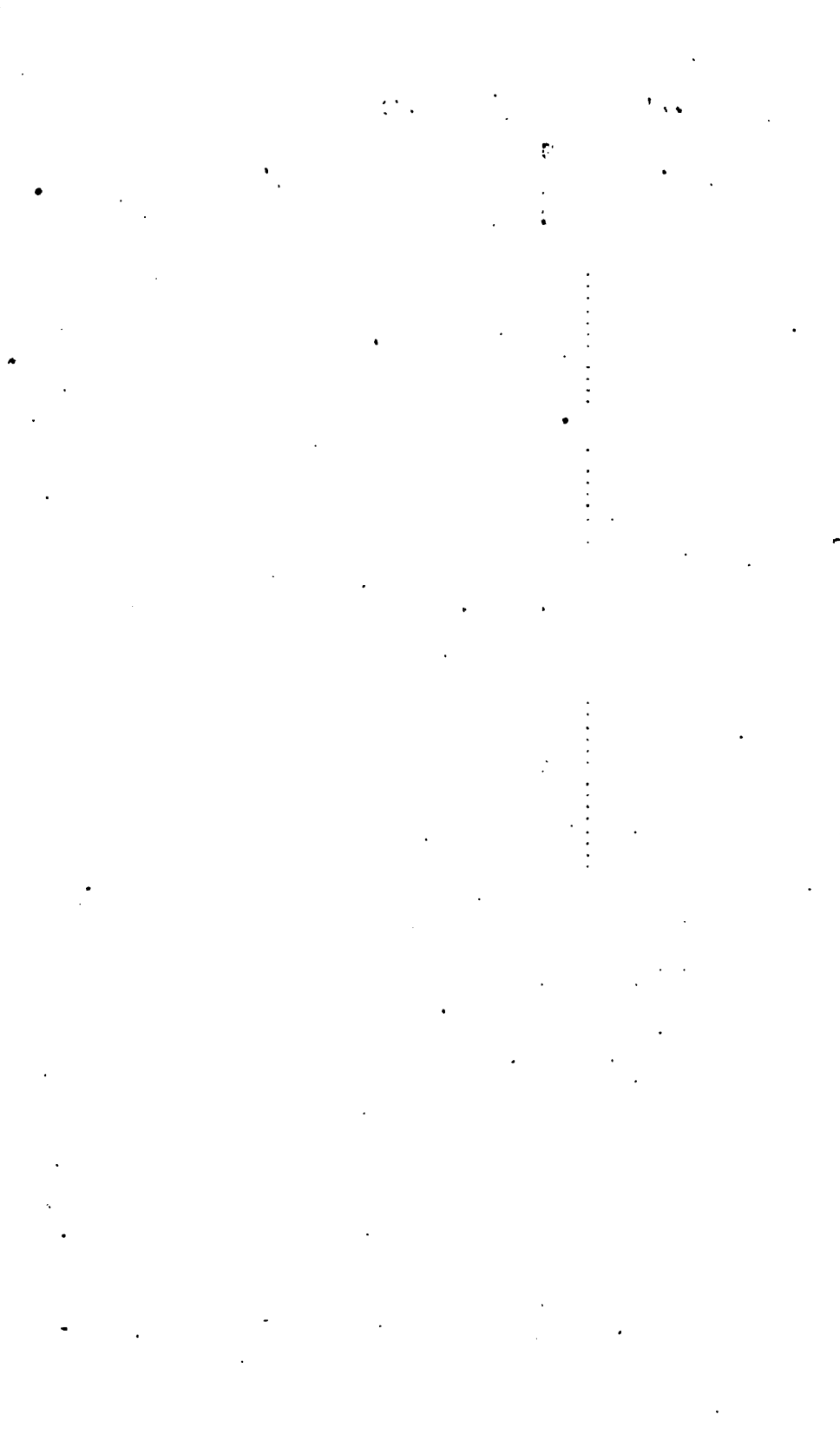
ITEMS.	SECTIONS.				RESERVOIRS.		
	No. 91, bridge, and 12 chains of Feeder.				No. 98, and 12 chains of Feeder.	Rockville, including bridges.	Oil creek, including bridges.
	Sec. & Feeder.	Bridge.	Aggregate.		No. 107.		
Work, grubbing and clearing, . . . . .	1	1	1	1	1	1	1
Acres, chopping and clearing, . . . . .	.....	.....	.....	.....	.....	.....	400
Work, bailing and draining, . . . . .	1	1	1	1	1	1	1
Cubic yards, earth excavation, . . . . .	30,000	.....	30,000	45,000	64,000	12,000	30,000
embankment, . . . . .	19,500	2,500	22,000	33,000	8,000	650	140,000
liming, . . . . .	2,000	.....	2,000	5,000	5,000	.....	.....
puddling earth, . . . . .	460	.....	460	.....	.....	.....	20,000
brush and stone, . . . . .	450	.....	450	.....	.....	500	.....
loose stone, . . . . .	.....	5	5	.....	.....	.....	1,550
slope wall and pavement, . . . . .	20	.....	20	20	.....	33	54
battered wall in mortar, . . . . .	.....	.....	.....	.....	.....	.....	.....
do dry, . . . . .	.....	64	64	.....	.....	20	.....
masonry in locks except coping, . . . . .	.....	.....	.....	.....	.....	.....	.....
do in coping, . . . . .	.....	.....	.....	.....	.....	.....	.....
do culverts and well, . . . . .	42	.....	42	.....	.....	.....	283
concrete, . . . . .	.....	.....	.....	.....	.....	.....	26
M. feet, white oak, . . . . .	12,000	5,300	17,300	.....	.....	1,760	28,800
white pine, . . . . .	31,800	6,200	38,000	10,000	16,000	1,700	30,900
hemlock, . . . . .	.....	.....	.....	.....	.....	5,700	2,700

Pounds, wrought iron,.....	300	300	565	.....	.....	200	9,240
cast iron work,.....	.....	.....	.....	.....	.....	.....	.....
spike and nails,.....	500	75	575	200	600	50	650
lead,.....	.....	.....	.....	.....	.....	.....	.....
Chains, constructing new road,.....	.....	.....	.....	15	.....	14	230
Cu. yds. taking up and removing old masonry,.....	.....	.....	.....	.....	.....	.....	.....
Painting locks and bridges,.....	.....	1	1	.....	.....	1	.....

## QUANTITIES—(CONTINUED.)

ITEMS.	ISCHUA FEEDER. 2 1/2 m's 31 ab's.	LOCKS OF STONE.		AQUEDUCTS.		BRIDGES ON SECTION 107.		
		No. 105. 9 feet lift.	No. 106. 11 feet lift.	Ischua.	Ischua.	State street.	Union street.	Aggregates.
Work, grubbing and clearing, . . . . .	1	1	1	.....	.....	.....	.....	.....
Acres, chopping and clearing, . . . . .	.....	.....	.....	.....	.....	.....	.....	.....
Work, balling and draining, . . . . .	1	1	1	.....	.....	.....	.....	.....
Cubic yards, earth excavation, . . . . .	27,000	2,400	3,600	400	.....	.....	.....	.....
embankment, . . . . .	64,000	3,000	6,000	700	.....	200	150	350
lining, . . . . .	1,000	400	400	500	.....	.....	.....	.....
puddling earth, . . . . .	250	600	600	400	.....	.....	.....	.....
brush and stone, . . . . .	1,100	.....	750	80	.....	.....	.....	.....
loose stone, . . . . .	.....	70	70	.....	.....	.....	.....	.....
slope wall and pavement, . . . . .	600	217	217	120	.....	.....	.....	15
battered wall in mortar, . . . . .	.....	.....	.....	80	.....	.....	.....	.....
do dry, . . . . .	45	.....	.....	113	.....	107	81	188
masonry in locks, except coping, . . . . .	.....	1,060	1,200	.....	.....	.....	.....	.....
do do in coping, . . . . .	.....	60	60	.....	.....	.....	.....	.....
do do in culverts and well, . . . . .	43	.....	.....	.....	.....	.....	.....	.....
concrete, . . . . .	.....	.....	.....	.....	.....	.....	.....	.....
M. feet, white oak, . . . . .	8,000	10,600	11,200	15,000	.....	.....	.....	10,110
white pine, . . . . .	27,000	25,000	114,300	75,000	.....	5,220	4,890	14,460
hemlock, . . . . .	.....	30,000	.....	.....	.....	8,440	6,020	.....

Pounds, wrought iron work, .....	570	2,040	2,150	3,600	465	435	890
cast .....		240	240				
do .....							
spike and nails, .....	200	1,200	1,000	1,100	110	80	190
lead, .....		200	200				
Chains, constructing new road, .....							
Cub. yds. taking up and removing old masonry, .....	6						
Painting locks and bridges, .....			182				
		1	1		1	1	2



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## A P P E N D I X.

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**EASTERN DIVISION.**

**BIDS FOR WORK,**

**LET AT ALBANY, NOVEMBER 19<sup>TH</sup>, 1851.**

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## EASTERN SUB-DIVISION OF THE EASTERN DIVISION.

Engineer's estimate,	NUMBER OF SECTION.						NAMES OF GUARANTY.
	\$4,023	\$5,754	\$15,463	\$35,569	\$18,250	\$15,745	
NAMES OF PROPOSERS.	No. of proposition.						
13.	14.	15.	16.	17.	18.	19.	
Allen, S. & Co.,	\$4,401	\$5,535	\$17,375	\$31,365	\$16,739	\$14,690	\$3,028 M. Western and A. J. Yates.
Britton, J. W. & Co.,	.....	.....	17,936	25,779	17,947	16,831	A. Bell and B. Britton.
Beach, J. S. & Co.,	6,341	9,768	31,252	50,983	30,773	22,893	7,954 H. Chapman and W. H. Beach.
Brintnell, H. & Co.,	11,471	4,012	19,620	27,504	12,813	11,901	3,265 John Wilkinson.
Bertcher, P. D.,	4,845	8,329	25,358	42,714	18,370	16,048	5,694 J. and B. Stafford.
Bartlett, J.,	3,205	4,508	15,055	27,904	13,773	14,183	3,795 R. Elwood and A. Swart.
Barthdt, J.,	4,340	6,612	19,242	35,691	16,488	14,884	4,415 S. F. Johnson, ch. eng. of T. and B. R. Road.
Buell, W. W.,	.....	6,346	18,358	30,540	17,204	15,869	5,007
Buell, Orson,	.....	6,346	18,358	30,540	17,204	15,869	5,007
Digham, A. & Co.,	3,675	5,728	19,118	32,601	16,697	16,942	5,493 W. W. Wright and P. V. Burtles.
Bradshaw, H. B.,	4,602	6,431	19,459	32,991	19,752	18,663	6,168 J. Knokebecker.
Brady, J. & Co.,	3,551	5,312	14,967	28,267	15,161	13,622	3,774 S. E. Ford.
Bell, G. & Co.,	.....	.....	.....	28,636	15,951	.....	.....
Barthdt, J. S. M.,	.....	.....	20,900	25,408	17,478	17,295	.....
Barker, A. B. & Co.,	.....	.....	.....	.....	19,643	19,689	.....
Barton, W. & Co.,	.....	.....	.....	.....	.....	.....	.....
Correll, G. W. & Co.,	4,284	6,317	20,029	34,149	16,290	21,543	.....
Crosby, C. F. & Co.,	4,152	5,650	18,287	35,634	18,068	15,669	4,628 A. Richards and N. J. Beach.
Campbell, F. & Co.,	4,386	6,081	20,399	36,131	18,600	16,358	4,644 S. Clark and A. Sumner.
Chapman, H.,	7,362	11,309	34,658	53,449	33,632	28,856	8,683 E. H. Chapman and J. S. Beach.
Callender, G. F. & Co.,	4,984	6,296	17,778	40,421	18,806	17,876	4,846 A. W. Ostrander and W. J. Nelson.
Callen, J. & Co.,	.....	4,411	14,939	31,573	14,773	14,920	4,288 P. D. Collins and Charles Duncan.
Cullen, J. & Co.,	.....	7,216	23,021	44,025	21,060	18,869	.....
Campbell, S. B. & Co.,	.....	7,216	23,021	44,025	21,060	18,869	.....
Carmichael, E. F. & Co.,	13,488	5,182	16,933	34,089	15,931	.....	.....
Cole, N. & Co.,	4,389	6,853	20,222	36,166	19,278	15,726	5,153 J. Southard and S. Cole.
Candee, W. & Co.,	3,363	5,080	17,928	39,109	17,129	15,697	4,255 D. Denison and S. Hart.
Caldwell, J. W. & Co.,	.....	20,151	39,109	.....	.....	.....	.....
Quasdy, J.,	6,350	.....	26,317	34,145	15,670	16,548	.....
Coleman, W. & Co.,	.....	6,465	16,813	26,355	17,839	15,409	.....
Coleman, W. & Co.,	5,108	7,743	24,813	48,582	23,647	20,597	4,918 D. S. Manners, W. Taylor and others.
Clifford, J. A. & Co.,	3,959	5,963	18,968	34,375	18,948	17,953	6,028 M. S. Pitcher.
							4,509 C. S. Grinnell and W. Slocum.

## PROPOSALS—(CONTINUED.)

Engineers' estimate,.....	NUMBER OF SECTION.										NAMES OF GUARANTY.
No. of proposition.	NAMES OF POPOSERS.										
	13.	14.	15.	16.	17.	18.	19.				
\$4,023	\$5,754	\$18,463	\$35,506	\$18,250	\$15,742	\$4,757					
Cleary, W. & Co.,.....	218		20,586	42,403					Powell, Ramdale & Co.		
Cruger, W. H. & Co.,.....	389			35,406					Lewis Birdsall.		
Clement, L. M. & Co.,.....	21								John Marlett and D. P. Forrest.		
Cole, E. & Co.,.....	56								Thomas E. Horton and W. Clark.		
Decker, N. H.,.....	127	4,176	5,908	16,787	32,807	15,735	15,110	4,376	Hugh McClellan.		
Dunick, L. & Co.,.....	149	5,598	7,297	22,651	42,119	21,778	18,932	5,518	E. B. Smith and H. E. Storr.		
Decker, J. H.,.....	23	3,596	5,066	16,821	33,512	19,212	16,329	4,470	Wm. Eggleson and John McDermid, Jr.		
De Graw, C. J. & Co.,.....	260	3,471	5,364	14,734	30,037	15,141	13,137	4,184	R. C. Keaton & H. H. Ccatt.		
Elwood, A.,.....	320								Nicholas Schuyler.		
Elwood, H.,.....	188								R. Elwood and J. Barbrydt.		
Fenner, A. & Co.,.....	208	3,406	5,721	18,205	40,274				E. Dorlan.		
Fisher, T. H. & Co.,.....	608 & 609	4,381	7,171	18,642	24,348	18,746	15,517	5,612	J. E. Whipple.		
Fennell, J. & Co.,.....	320			23,275	42,209	22,631			Russell Sage and S. Norton.		
Flanagan, J.,.....	519				43,479	22,111	22,822		Theo Martin and J. B. Flanagan.		
Gray, J. J.,.....	582								J. J. Schuyler & Chas. Diefendorf.		
Healy, J.,.....	266	6,307	9,007	26,320	43,157	24,704	28,143	7,334	Leonard R. Sargent.		
Hutchins, T.,.....	459	4,702	6,100	14,546	25,715	13,726	17,367	5,545	Thos. Bussey and William Wear.		
Hague, A. & Co.,.....	569			16,273	30,818	14,124	14,176	3,860	Henry Evans and John Peters.		
Haight, S. R.,.....	306	3,779	4,912	15,530	30,249	16,678	12,197	3,888	Wm. & Chas. Kingsbury.		
Higgins, J.,.....	498	9,766	12,058	32,521	49,163	22,200	23,517	15,237	C. L. Austin.		
Havelly, N. W.,.....	108								H. Van Slyck and A. Eoyce.		
Holmes, H. & Co.,.....	565			21,178	37,666	19,942			Nicholas Van De Bogart and A. McMillan.		
Hageman, C.,.....	30			35,608	17,297	13,925		4,236	C. G. Hegeman and J. Cronkhite.		
Jackson, Y. & Co.,.....	793				41,400	19,857	19,513		S. Belding, Jr. and Jac Morris.		
Loomis, H. & Co.,.....	695			22,397	30,141	15,697	21,742		E. Thomas and D. L. Farnham.		
Learned, E. & Co.,.....	595			19,630	44,704	17,655	16,526	4,604	A. A. Dunlap and A. Tenney.		
Lavy B. & Co.,.....	370		6,967	18,241	30,705	18,669	16,826	4,422	David Nellgar and James Cushman.		
London, H. L. & Co.,.....	614			18,850	33,620				Miles White and Thos. McEntee.		
Lynch, B. & Co.,.....	380	3,980	5,672						Wanting.		
Laddington, M. E. & Co.,.....	555			53,426	67,471	36,835			C. J. De Graw and John De Wolf.		



## PROPOSALS—(CONTINUED.)

Engineer's estimates,.....		NUMBER OF SECTION.							NAMES OF GUARANTY.
		13.	14.	15.	16.	17.	18.	19.	
NAMES OF PROPOSERS.	No. of proposition.								
Swart, J. & Co.,.....	39					13,038	12,457		J. Cady and Andrew Trux.
Savin, M. & Co.,.....	682	3,172	4,866	15,279	24,784	14,779	14,527		4,097 Robert Morrison and F. S. Lamport.
Sheppard, W.,.....	600	4,754	6,252	19,087	27,033	12,300	14,998		4,009 A. J. Yates, and William Nesale.
Stearns, B. & Co.,.....	231	3,061	6,043	19,776	41,794	17,691	14,410		5,147 William and James Calligan.
Storck, M. C.,.....	503	4,829	5,657	21,272	37,431	18,105	16,897		4,520 Geo. Law and David Palmer.
Savage, J. & Co.,.....	813	4,954	6,578	19,954	33,574	18,344	60,884		4,768 Thomas James.
Schmerhorn, N. J.,.....	13								C. Schmerhorn and A. Kelly.
Swart, A. & Co.,.....	406								A. J. Yates and W. C. Wemple.
Smith J. C.,.....	411								Benj. Frazer and S. Smith.
Sanderson, J. & Co.,.....	336								J. and A. Groesbeck.
Schuyler, N. N.,.....	369								Abram Elwood.
Stuart, W. R.,.....	481								Robert Smith and Jas. M. ....
Stewart, W. & Co.,.....	479								D. J. McMartin and Jno. Stewart.
Upton, J. & Co.,.....	17	4,874	6,146	19,752	35,946	18,029	46,256		4,865 Peter D. McNab and Thomas Cowell.
Vrooman, J. N.,.....	559								A. Van Vorst and W. McCamus.
Van Der Karr, L. & Co.,.....	603	5,430	8,311	20,564	37,448	18,805	20,221		4,828 Thos. Vander Karr and Robert Powers.
Van Zile, J.,.....	36								B. Marshall and Jno. A. Grigwold.
Van De Bogart, N. & Co.,.....	241 & 242	4,272	6,677	17,655	29,991	18,008	17,277		4,232 M. Barhydt and W. McCamus.
Van Voorst, J. B.,.....	12								T. Potter and H. C. Van Voorst.
Vrooman, F. C.,.....	52								4,575 John N. Vrooman and E. B. Dow.
Van Slyck, A. H.,.....	55								A. A. Bradt and John Van Slyck.
Van Arnum, A. H. & Co.,.....	496								J. W. Miller and John Roosevelt.
Van Horne, C. F. E. & Co.,.....	431								H. P. Alexander and H. Doolittle.
Vedder, H. U.,.....	446								A. M. and S. Y. Vedder.
Van Slyck, H. & Co.,.....	79								M. W. Haverly and A. Boyce.
Wormser, D. & Co.,.....	483	4,654	6,610	21,006	37,149	21,191	17,330		5,874 P. C. Van Wyck and John D. Livingston.
Wormer, D.,.....	482	5,006	6,474	21,582	43,992	20,684	17,650		4,846 Miner King and J. D. Livingston.
Weed, S. & Co.,.....	636	3,691	6,019	18,047	34,768	18,485			..... W. B. Doubleday.
Woodruff, D. H. & Co.,.....	182								..... C. L. Woodruff and W. H. De Witt.
Williams, G. & Co.,.....	334								6,732 Horace Hunt and J. O. H. Rockfellow.
Wilcox, C. & Co.,.....	338			23,531	48,245	19,997	19,864		..... J. B. Wilcox and G. Benedict.

## PROPOSALS—(CONTINUED.)

Engineers' estimate.....	NUMBER OF SECTION.						NAMES OF GUARANTY.
	30.	31.	32.	33.	34.	35.	
	\$29,726	\$25,319	\$21,958	\$34,870	\$6,756	\$17,382	\$13,606
NAMES OF PROPOSERS.	NUMBER OF SECTION.						NAMES OF GUARANTY.
No. of pre-positions.	30.	31.	32.	33.	34.	35.	
Allen, S. & Co.,.....	25,999	23,261	31,002	29,499	4,356	17,401	M. Western and A. J. Yates.
Britton, J. W. & Co.,.....	31,098	29,035	19,380	29,958	4,701	19,250	13,300 A. Bell and S. Britton.
Beach, J. S. & Co.,.....	40,640	38,030	30,700	40,365	7,487	28,723	21,579 H. Chapman and W. H. Beach.
Brimnell, H. & Co.,.....	18,139	17,332	14,523	21,915	2,897	15,532	7,326 John Wilkinson.
Bretcher, F. D.,.....	111						J. and B. Stafford.
Bartholdy, J.,.....	129						R. Elwood and A. Swart.
Buel, W. W.,.....	491	25,444	22,372	32,232	5,658	20,126	S. F. Johnson, ch. eng. of T. and B. R. Road.
Buel, Orson,.....	536	34,605	29,946	18,701	27,711	19,751	
Biggam, A. & Co.,.....	539	28,087	23,527	21,878	30,717	7,779	W. W. Wright and P. V. Burtis.
Bradshaw, H. B.,.....	665	26,163	24,015	21,503	32,181	18,841	J. Knickerbacker.
Brady, J. & Co.,.....	626	27,195	25,469	19,797			S. E. Ford.
Bell, O. & Co.,.....	572			28,859		17,081	J. Sanford and D. Wright.
Bartholdy, J. S. M.,.....	26	25,726				18,449	M. Bartholdy and William Fuller.
Backer, A. B. Co.,.....	22	29,758	26,560	25,221		22,166	15,116 S. M. Payne and P. Barton.
Barlow, W. & Co.,.....	685			29,178	19,835	14,786	15,930 S. E. Ford.
Cornell, G. W. & Co.,.....	562	26,317	22,885	25,653	33,383	5,381	11,160 C. L. Austin.
Crosby, J. & Co.,.....	728						A. Richards and N. J. Beach.
Campbell, F. & Co.,.....	711						S. Clark and A. Sumner.
Chapman, H.,.....	485						E. H. Chapman and J. S. Beach.
Callender, G. F. & Co.,.....	433	22,670	23,111	35,149	5,325	18,362	11,447 A. W. Ostrander and W. J. Nelson.
Gallen, J. & Co.,.....	59	20,812	20,084	18,748	29,583	4,225	15,414
Campbell, S. B. & Co.,.....	259	32,348		26,625	36,609	6,934	21,051
Carmichael, B. F. & Co.,.....	54				16,704		14,885 H. J. Campbell and Charles L. Austin.
Cole, N. & Co.,.....	598						J. Southard and S. Cole.
Quadee, W. & Co.,.....	716	24,131	22,696	19,892	30,071	4,508	18,106
Quidwell, J. W. & Co.,.....	537	32,332	29,932	26,565	40,471	6,483	24,515
Quaidy, J.,.....	556			21,622	25,328		
Calwell, W. & Co.,.....	473						J. F. Green and T. Green.
Colman, W. & Co.,.....	471	30,476	28,762	24,212	38,988	5,961	22,945
Quaid, J. A. & Co.,.....	739	27,818	26,176	25,578	37,669	6,489	19,046



## PROPOSALS—(CONTINUED.)

Engineers' estimates,.....		Names of Proposers.				Names of Guaranty.					
No. of Propositions.		NUMBER OF SECTION.									
		30.	31.	32.	33.	34.	35.	36.			
218	Clear, W. & Co., .....	40,432	37,571	22,128	25,933	.....	21,810	14,143	Powell, Ramdale & Co.,		
369	Crazer, W. H. & Co., .....	.....	.....	.....	30,836	.....	19,089	13,314	Lewis Birdall,		
21	Clement, L. M. & Co., .....	141,249	83,869	16,835	31,852	4,126	.....	9,104	John Marlett and D. P. Forrest.		
56	Cole, E. & Co., .....	24,939	25,956	23,383	28,981	5,251	22,157	14,633	Thos. R. Horton and W. Clark.		
127	Decker, N. H., .....	111,040	.....	.....	84,860	4,421	16,752	11,684	Hugh McClellan.		
143	Diamond, L. & Co., .....	.....	.....	20,447	.....	.....	.....	.....	E. B. Smith and H. E. Storrs.		
23	De Gray, C. J. & Co., .....	21,811	20,258	16,477	26,794	4,455	14,293	10,491	William Fagleston & John McDaniel, Jr.		
260	Elbrook, A., .....	23,755	24,563	19,184	32,366	.....	16,490	12,151	R. C. Kenyon & H. H. Cress.		
330	Elwood, H., .....	24,022	20,778	18,081	34,135	.....	16,681	10,864	Nicholas Schuyler.		
188	Fanner, A. & Co., .....	21,724	20,731	18,364	.....	3,171	16,104	11,172	R. Elwood and J. Embury.		
208	Fisher, T. H. & Co., .....	28,761	24,916	25,786	36,818	7,703	16,270	20,868	J. E. Whipple.		
606 & 609	Fennell, J. & Co., .....	.....	.....	.....	.....	.....	.....	.....	Russell Sage and S. Norton.		
330	Flanagan, J., .....	.....	.....	.....	.....	.....	.....	.....	Theo. Martin and J. B. Hargan.		
519	Gray, J. J., .....	23,082	21,478	19,197	26,457	.....	16,928	11,747	J. J. Schuyler and Chas. L. Hoffendorf.		
592	Healy, J., .....	37,299	22,222	34,680	31,021	4,824	16,986	10,805	Leonard R. Sargeant.		
265	Hickins, T., .....	25,680	27,432	17,987	29,801	6,882	.....	.....	Thos. Eusey and Wm. Weaver.		
459	Hague, A. & Co., .....	18,189	16,906	.....	26,443	3,793	16,070	10,752	Henry Evans and John Peters.		
289	Haight, S. R., .....	22,809	23,065	17,349	27,168	4,144	16,080	.....	Wm. and Chas. Kingsbury.		
306	Higgins, J., .....	.....	.....	.....	.....	.....	.....	.....	C. L. Austin.		
408	Haverty, N. W., .....	.....	.....	.....	.....	.....	.....	.....	H. Van Slyke and A. Eoyce.		
768	Holmes, H. & Co., .....	.....	.....	.....	.....	.....	.....	.....	Nicholas Van De Bogart and A. McKellen.		
565	Hoyman, C., .....	.....	.....	.....	.....	.....	.....	.....	C. G. Hagenan and J. Cronkble.		
10	Jacobsen, J. & Co., .....	26,711	24,212	21,694	.....	.....	.....	.....	S. Fielding, Jr. and Jac Morris.		
213	Leonia, H. & Co., .....	.....	.....	.....	63,871	.....	33,627	16,689	E. Thomas and D. L. Farnham.		
666	Learned, E. & Co., .....	.....	.....	.....	.....	.....	.....	.....	A. A. Dunlap and A. Tenney.		
566	Levy, B. & Co., .....	.....	.....	.....	.....	6,086	23,160	16,641	David Neillgar and James Cachtin.		
570	London, H. L. & Co., .....	.....	.....	.....	.....	.....	.....	.....	Miles White and Thomas McEntee.		
614	Lynch, B. & Co., .....	.....	.....	.....	.....	.....	.....	.....	Wanting.		
230	Liddington, M. E. & Co., .....	47,187	39,661	.....	44,323	.....	.....	.....	C. J. De Gray and John De Wolf.		
465	.....	26,522	26,612	24,690	36,231	6,614	21,706	14,186			

McCabe, J. J.,	546	28,513	21,581	17,752	24,717	8,747	19,350	9,510	D. D. Campbell and J. W. Seligman.
McIntire, P.,	489	70,672	41,337	18,438	57,011	4,314	24,499	10,081	F. S. Lamport and Thomas Saute.
McGovern, F. & Co.,	341	24,065	34,303	22,747	42,111	8,965	25,432	19,133	Giles Fox and Andrew Myers.
McQuade, P.,	730	21,975	32,547	31,922	41,922	20,622	15,764	John A. McKnight and A. McQuade.	
McDonald, J. Jr.,	187	26,092	25,734	24,192	55,291	4,431	22,847	14,067	D. Wright and John B. Sturtevant.
McDonald, J.,	593	25,938	23,857	21,326	27,211	4,911	19,654	12,802	Thurlof Weed.
Milligan, T.,	690	.....	.....	.....	.....	.....	.....	.....	Isaac F. Fletcher and J. E. Ison.
Moss, J. B.,	799	.....	.....	.....	.....	.....	.....	.....	J. F. Russell.
Mills, Theo. G. & Co.,	183	.....	.....	.....	30,804	.....	16,332	10,849	H. Brinnell and H. Swain.
Morris, W. W.,	618	.....	.....	.....	39,611	6,353	24,737	16,666	Edward Vance.
Matson, P. & Co.,	697	.....	.....	.....	35,896	7,772	.....	.....	J. Douclet and Oliver Johnson.
Moore, R. L.,	63	18,139	17,933	19,060	28,398	4,621	16,757	10,170	G. J. Vincent and J. J. Grant.
Morrell, W. H.,	228	30,031	27,819	23,623	31,743	5,101	20,023	13,121	W. W. Morris and T. A. Emmett, Jr.
Morgan, P. & Co.,	571	21,402	20,235	17,422	19,901	4,141	16,010	11,512	Constant Crook.
Mathews, J. B. & Co.,	4	.....	.....	.....	.....	.....	.....	.....	W. A. Herrick and Thomas B. Smirora.
Marlett, J. W. & Co.,	118	.....	.....	.....	.....	.....	.....	.....	J. B. Vandewater and L. McQuincy.
McDonald, A. P.,	673	.....	.....	.....	34,070	6,994	22,435	13,657	Edward P. Cowles.
Mathews, G. & Co.,	119	28,984	27,093	17,545	21,322	4,014	.....	.....	A. Mathews and J. W. Felker.
McDonald, J. & Co.,	345	.....	.....	.....	26,781	4,352	17,991	.....	J. Stuart and John McQuincy.
McVernay, H. & Co.,	601	.....	.....	.....	33,180	4,994	18,659	12,734	James Brady and James Maluo.
McPharlin, P.,	641	.....	.....	.....	20,690	55,156	48,062	.....	P. Murphy.
McDonough, J.,	315	.....	.....	.....	42,633	.....	.....	.....	James W. Byrne and James Caskin.
Nichols, J. H.,	508 and 516	25,323	24,579	22,679	34,023	6,994	22,358	13,637	John F. Rathbone.
Northrup, H. B.,	613	33,235	31,305	26,690	36,436	6,334	21,841	16,317	L. H. Northrup and D. Doubleday.
Noxon, J. & Co.,	649	33,554	31,411	26,127	.....	.....	.....	.....	C. Bouton and R. R. Kennedy.
Petree, H.,	521	.....	.....	.....	25,872	.....	.....	.....	Thomas James and A. McGowan.
Phelps, W. & Co.,	728	36,675	24,372	16,798	29,758	3,790	24,686	13,263	William Parmelee and E. Caring.
Quakenbush, H. & Co.,	713	28,185	26,423	22,575	32,983	.....	20,833	.....	S. P. Lyman.
Quakenbush, J.,	410	24,724	22,025	18,229	35,354	.....	17,072	11,581	J. A. Slater and Harvey Hughes.
Relly, J. & Co.,	151	21,473	16,447	117,939	78,698	.....	.....	10,762	James Brady.
Rogers, V. & Co.,	349	.....	.....	.....	.....	.....	.....	.....	F. S. Lamport and N. S. Richards.
Richardson, P. & Co.,	295 and 297	25,710	24,437	19,677	23,161	5,463	17,641	12,066	T. N. Dillingham and George Strover.
Ransom, W. H.,	490	29,858	21,421	22,860	31,767	3,116	.....	15,681	James B. Taylor.
Russell, S. P.,	470	30,234	21,719	22,673	.....	6,653	18,362	13,103	H. C. Goodwin and M. McQuade.
Roof, J. J. & Co.,	245	.....	.....	.....	21,907	4,857	16,448	11,061	M. L. Harris and J. S. Casler.
Rogers, D.,	270	25,662	23,380	14,631	25,755	4,252	15,340	10,226	S. Voorhes and D. J. McKartin.
Reid, J. B. & Co.,	7	28,069	23,121	21,437	.....	.....	.....	.....	W. G. Wait and S. G. Green.
Rose, J. R. & Co.,	73	.....	.....	.....	30,087	.....	.....	.....	John McKnight.
Stern, H. E. & Co.,	342	29,151	27,438	21,169	28,583	5,499	21,508	14,562	Fd. Elbridge and Sam. Weed.
Stewart, J.,	273	26,065	23,804	20,479	28,255	.....	.....	.....	S. Belding, Jr. and Alexander Sheldon.

# PROPOSALS—(CONTINUED)

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ASSEMBLY

Engineers' estimates,.....		\$29,726	\$25,319	\$21,858	\$34,870	\$6,756	\$17,382	\$13,600	NAMES OF GUARANTY.	
		NUMBER OF SECTION.								
NAMES OF PROPOSERS.	No. of proposition.	30.	31.	32.	33.	34.	35.	36.		
Swart, J. & Co.,.....	39	.....	.....	.....	.....	.....	.....	.....	J. Cady and Andrew Trux.	
Revin, M. & Co.,.....	682	.....	.....	.....	.....	.....	.....	.....	Robert Morrison and F. S. Lamport.	
Sheppard, W.,.....	600	.....	.....	.....	.....	.....	.....	.....	A. J. Yates & William Nesale.	
Sterneburgh, B. & Co.,.....	231	.....	.....	.....	.....	.....	.....	.....	William and James Calligan.	
Stort, M. C.,.....	503	.....	.....	.....	.....	.....	.....	.....	Geo. Law and David Palmer.	
Savage, J. & Co.,.....	813	28,813	26,188	23,061	33,955	6,689	18,916	13,925	Thomas James.	
Schermerhorn, N. J.,.....	13	112,759	25,377	132,214	32,933	70,911	18,396	14,072	C. Schermerhorn and A. Kelly.	
Stuart, A. & Co.,.....	406	30,292	27,739	20,482	23,380	5,438	15,713	10,567	A. J. Yates and W. C. Wemple.	
Smith, J. C.,.....	411	21,772	20,925	18,369	38,177	6,750	17,583	13,613	Benj. Frazee and S. Smith.	
Saunders, J. & Co.,.....	336	.....	.....	.....	.....	.....	.....	.....	J. and A. Groesbeck.	
Schuyler, N. N.,.....	350	22,545	16,791	13,220	30,462	4,106	15,474	11,206	Abram Elwood,	
Stuart, W. B.,.....	481	45,599	41,741	26,267	.....	.....	.....	.....	Robert Smith and Jas. M——.	
Stuart, W. & Co.,.....	479	.....	.....	.....	.....	.....	.....	.....	D. J. McMartin and Jno. Stewart.	
Upton, J. & Co.,.....	17	.....	.....	.....	.....	.....	.....	.....	Peter D. McNab and Thos. Cowell.	
Vrooman, J. N.,.....	550	34,783	32,498	23,924	.....	.....	.....	.....	A. Van Vorst and W. McCamus.	
Van Der Karr, L. & Co.,.....	603	27,451	25,287	23,447	36,594	5,863	20,960	13,254	Thos. Van Der Karr and Robert Powers.	
Van Zile, J.,.....	36	38,503	35,871	30,375	35,562	6,835	24,483	19,525	B. Marshall and John A. Griswold.	
Van De Bogart, N. & Co.,.....	341 & 242	26,420	24,518	17,846	24,131	4,668	17,349	11,577	M. Barhydt and Wm. McCamus.	
Van Voorst, J. B.,.....	12	35,469	.....	.....	.....	.....	.....	.....	P. Potter and H. C. Van Voorst.	
Vrooman, F. C.,.....	52	29,532	26,870	20,431	.....	.....	.....	.....	John N. Vrooman and E. B. Dow.	
Van Slyck, A. H.,.....	55	.....	.....	.....	.....	.....	.....	.....	A. A. Bradt and John Van Slyck.	
Van Arman, A. H. & Co.,.....	496	29,804	25,625	22,264	34,915	6,696	17,477	13,331	J. W. Miller and John Roosevelt.	
Van Horne, C. T. E. & Co.,.....	431	32,990	30,225	25,100	31,982	4,632	16,790	12,447	H. P. Alexander and H. Doolittle.	
Vedder, H. U.,.....	446	31,375	25,191	20,558	26,572	4,564	16,571	11,600	A. M. and S. Y. Vedder.	
Van Slyck, H. & Co.,.....	79	.....	.....	.....	.....	.....	.....	.....	M. W. Haverly and A. Boyce.	
Wormer, D. & Co.,.....	483	.....	.....	.....	.....	.....	.....	.....	P. C. Van Wyck and John D. Livingston.	
Wormer, D.,.....	482	.....	.....	.....	.....	.....	.....	.....	Miner King and J. D. Livingston.	
Weed, S. & Co.,.....	636	.....	.....	.....	.....	.....	.....	.....	W. B. Doubleday.	
Woodruff, D. H. & Co.,.....	182	.....	.....	.....	.....	.....	.....	.....	C. L. Woodruff and W. H. De Witt.	
Williams, G. & Co.,.....	334	.....	.....	.....	.....	.....	.....	.....	Hornoe Hunt and J. O. H. Roof fellow.	
Willcox, C. & Co.,.....	388	.....	.....	.....	.....	.....	.....	.....	J. B. Willcox and G. Benedict.	

## PROPOSALS—(CONTINUED.)

Engineers' estimate, .....	NUMBER OF SECTION.										NAMES OF GUARANTY.	
No. of pro- position.	NUMBER OF SECTION.										NAMES OF GUARANTY.	
	37.	40.	51 to 45.	51 to 56.	57.	58.	59.					
NAMES OF PROPOSERS.												
Allen, S. & Co., .....	398 & 399	\$16,288	\$9,715	\$23,219	\$28,019	.....	.....	.....	.....	.....	M. Western and A. J. Yates.	.....
Alexander, H. P. & Co., .....	652	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Skinner and Homer Caswell.	.....
Adams, W., .....	639	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. P. Van Dresser.	.....
Borden, H. P. & Co., .....	327	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Stafford and P. Whitmore.	22,451
Britton J. W. & Co., .....	552	16,782	.....	.....	.....	23,774	.....	.....	.....	.....	A. Bell and S. Britton.	27,005
Beach, J. S. & Co., .....	142	30,114	18,176	.....	.....	38,054	.....	.....	.....	.....	H. Chapman and W. H. Beach.	.....
Brintnall, H. & Co., .....	221	11,248	13,073	17,584	20,745	20,918	.....	.....	.....	.....	John Wilkinson.	20,214
Betticher, P. D., .....	111	.....	17,006	25,863	25,470	21,866	.....	.....	.....	.....	J. and B. Stafford.	23,994
Buell, W. W., .....	491	.....	.....	.....	.....	20,047	.....	.....	.....	.....	S. F. Johnson, Chief Eng'r T. and B. R. R.	26,243
Buell, Orson, .....	536	.....	.....	.....	.....	20,047	.....	.....	.....	.....	W. W. Wright and P. V. Burtiss.	30,190
Bigham, A. & Co., .....	539	16,174	.....	.....	.....	23,864	.....	.....	.....	.....	J. Knickerbocker.	30,102
Bradshaw, H. B., .....	655	16,492	12,052	27,087	29,595	23,939	.....	.....	.....	.....	J. Sanford and D. Wright.	.....
Bell Geo. & Co., .....	572	.....	9,474	.....	.....	23,939	.....	.....	.....	.....	S. M. Payne and P. Barton.	.....
Barker, A. B., .....	22	21,846	13,892	29,911	29,429	27,918	.....	.....	.....	.....	M. Barhydt and Wm. Fuller.	.....
Barhydt, J. S. M., .....	26	16,337	11,677	25,200	33,247	27,918	.....	.....	.....	.....	S. E. Ford.	25,035
Barton, W. & Co., .....	685	17,314	10,774	26,128	26,273	18,249	.....	.....	.....	.....	David Utley and Jno. Morris.	24,973
Borden, J. & Co., .....	419	.....	.....	26,819	28,728	inf'm	.....	.....	.....	.....	John Darrow and David Yost.	.....
Bowen, S., .....	701	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Mosher and Henry Card.	.....
Butler, W. J., .....	379	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles L. Austin.	.....
Cornell, G. W. & Co., .....	562	.....	.....	.....	.....	23,994	.....	.....	.....	.....	A. W. Ostrander and W. J. Nelson.	30,394
Callendar, G. F. & Co., .....	433	16,484	21,113	25,562	25,294	24,216	.....	.....	.....	.....	P. D. Collins and Chas. Duncan.	27,218
Cullen, J. & Co., .....	50	14,444	16,204	.....	53,019	42,780	.....	.....	.....	.....	Henry J. Campbell and Charles L. Austin.	25,327
Campbell, S. B. & Co., .....	259	19,923	.....	.....	.....	52,973	.....	.....	.....	.....	D. Dennison and S. Hart.	34,279
Carmichael, B. F. & Co., .....	54	.....	.....	.....	.....	48,640	.....	.....	.....	.....	H. S. Tarbell and W. S. Burrows.	.....
Candee, W. & Co., .....	716	17,798	11,272	24,497	24,725	39,496	.....	.....	.....	.....	J. F. Green and T. Green.	24,674
Caldwell, J. W. & Co., .....	537	.....	.....	.....	.....	26,065	.....	.....	.....	.....	M. S. Pitcher.	32,746
Cassidy, J., .....	566	15,415	.....	.....	.....	.....	.....	.....	.....	.....	M. S. Pitcher.	.....
Coleman, W. & Co., .....	471	22,988	14,057	29,652	28,331	33,837	.....	.....	.....	.....	M. S. Pitcher.	27,419
Cleary, Wm. & Co., .....	218	18,469	13,784	49,485	50,991	23,156	.....	.....	.....	.....	Lewis Birdall.	27,660
Cragar, Wm. H. & Co., .....	369	.....	.....	.....	.....	23,268	.....	.....	.....	.....	Lewis Birdall.	27,660

# PROPOSALS—(CONTINUED.)

Engineers' estimates, .....	\$26,924	\$10,624	\$24,67	\$23,964	\$25,115	\$49,912	\$27,142	NAMES OF GUARANTY.	
NAME OF PROPOSERS.	NUMBER OF SECTION.								
	No. of pro- position.	37.	41.	11 to 45.	51 to 56.	57.	58.		
Craig, John, .....	125	10,110	13,515	.....	.....	23,242	41,640	26,634	Cornelius Gardinier and Peter Van Evera.
Clement, L. M. & Co., .....	21	16,186	17,628	.....	.....	.....	.....	.....	John Marlett and D. P. Forrest.
Cole, Enos & Co., .....	56 & 62	.....	.....	26,885	29,520	30,243	49,791	28,627	Thos. R. Horton and Wm. Clark.
Clark, Wm. & Co., .....	40	.....	.....	.....	25,036	27,986	42,426	27,554	H. D. Ward and L. Spraker.
Cady, H. C., .....	174	.....	.....	.....	26,576	.....	.....	.....	A. J. Jates and John Craig.
Cummings, W. A., .....	629	.....	.....	.....	.....	34,077	57,203	43,328	John Pan and Alex. McGuire.
Chapman, W. R. & Co., .....	310	.....	.....	.....	.....	25,955	54,051	30,231	C. C. Keaton and A. Fisk.
Collins, J. & Co., .....	87	.....	.....	.....	.....	26,129	46,632	34,071	Wm. Beard and Jas. Fiehl.
Cox, D. C. & Co., .....	105	.....	.....	.....	.....	.....	.....	.....	S. Elwood and L. Averill.
Catwell, H. & Co., .....	156	.....	.....	.....	.....	.....	.....	.....	Jas. Freter and H. P. Alexander.
Decker, N. H., .....	127	17,213	16,425	.....	.....	22,122	45,145	26,126	Hugh McClellan.
Decker, J. H., .....	24	.....	11,943	.....	26,276	.....	.....	.....	Wm. Eggleston and J. McDonald, Jr.
De Graw, C. J. & Co., .....	260 & 262	14,621	9,467	.....	.....	20,571	23,856	22,157	R. C. Kenyon and H. H. Coats.
Do Forrest, D. D., .....	383	.....	10,712	26,102	.....	.....	.....	.....	John Stewart and Isaac Jackson.
Dudham, A. T., .....	553	.....	17,152	.....	.....	28,085	51,228	33,136	A. G. Sage and E. H. St. John.
Dyckman, P. H., .....	525	.....	.....	.....	.....	24,314	41,73	27,631	Austin Myers and C. S. Eromley.
Elwood, A., .....	320	.....	.....	.....	.....	22,926	34,656	27,433	Nicholas Schuyler.
Flwood, H., .....	188	.....	.....	.....	.....	22,66	34,687	24,178	R. E. Wood and J. Barbydt.
Fenner, A. & Co., .....	948	16,527	.....	.....	.....	22,194	45,009	25,619	E. Dorian.
Fisher, T. H. & Co., .....	606 & 609	23,735	21,284	36,713	40,53	25,91	36,562	28,836	J. E. Whipple.
Fennell, J. & Co., .....	330	26,197	.....	.....	.....	.....	59,467	.....	Russell Sage and S. Norton.
Funla, J., .....	775	.....	.....	.....	.....	21,844	42,132	29,924	Cornelius Gardinier.
Fisher, Jao., .....	49	.....	.....	36,957	37,638	56,612	36,783	.....	Lawton Benson and C. B. Chase.
Funla, P. H., .....	576	.....	.....	.....	.....	53,727	44,692	27,816	Abram D. and Henry Londa.
Gray, John J., .....	592	16,456	10,174	23,404	23,084	33,865	23,285	23,285	J. J. Schuyler and Charles Diefeendorff.
Gross, D. & Co., .....	455	.....	.....	.....	.....	42,478	.....	.....	Wm. Clark and S. Yngue.
Graham, G. & Co., .....	61	.....	.....	.....	.....	32,927	26,74	26,74	John Palmer and Abram Christman.
Gardinier, C. & Co., .....	708	.....	.....	.....	.....	39,438	27,138	27,138	Ino. Putnam and Marquis Barnes.
Green, Z., .....	637	.....	.....	.....	.....	25,09	49,857	.....	Wm. Herkimer and M. Caldwell.
Griggs, E. D., .....	604	.....	.....	.....	.....	.....	.....	.....	W. S. Kelley.

Greene, F.,	225	15,314	9,364	21,174	17,676	22,791	47,599	22,894	I. N. Lake and H. Nolton.
Healy, J.,	266	13,038	18,827	20,303	22,791	34,714	27,762	22,894	Leonard R. Sargent.
Hague, A. & Co.,	289	306	18,827	20,303	22,791	34,714	27,762	22,894	Henry Evans and John Peters.
Haight, S. R.,	306	18,827	20,303	22,791	34,714	27,762	22,894	22,894	Wm. & Chas. Kingsbury.
Haggerly, J. & Co.,	635	13,639	21,174	17,676	22,791	47,599	22,894	22,894	Oliver Johnson and John Sweeney.
Haverly, N. W.,	169	13,639	21,174	17,676	22,791	47,599	22,894	22,894	H. Van Slyck and A. Boyce.
Hart, M.,	112	16,130	11,268	22,356	22,434	38,717	29,854	29,854	Samuel Hart and J. R. Stafford.
Johnson, Daniel,	622	17,425	11,268	22,356	22,434	38,717	29,854	29,854	J. R. M. Barhydt and N. J. Schermerhorn.
Jackson, Isaac & Co.,	293	22,128	22,356	22,434	38,717	29,854	29,854	29,854	S. Belding, Jr., and James Morris.
Johnson, R. & Co.,	357	22,128	22,356	22,434	38,717	29,854	29,854	29,854	W. Wilson and Jno. Stewart.
Klyne, J. W. & Co.,	405	20,465	20,657	22,356	22,434	38,717	29,854	29,854	David Neillgar and Jas. Cashin.
Levy, R. & Co.,	376	20,465	20,657	22,356	22,434	38,717	29,854	29,854	Ed. Learned and B. H. Cheever.
Learnel, C. & Co.,	34	20,465	20,657	22,356	22,434	38,717	29,854	29,854	David P. Corey.
Livermore, J.,	210	20,465	20,657	22,356	22,434	38,717	29,854	29,854	C. J. DeGraw and John DeWolf.
Luddington, M. E. & Co.,	535	20,465	20,657	22,356	22,434	38,717	29,854	29,854	E. Thomas and D. L. Farnham.
Loomis, H. & Co.,	645	20,465	20,657	22,356	22,434	38,717	29,854	29,854	J. A. Cross and G. Elsham.
Lynch, R. & Co.,	230	15,666	15,875	24,161	24,161	45,251	29,225	29,225	J. F. Russell.
Mac, J. B.,	769	14,451	16,686	38,623	39,972	53,363	45,963	45,963	D. D. Campbell and J. W. Schuyler.
McCue, J. J.,	546	25,492	18,74	38,623	39,972	53,363	45,963	45,963	F. S. Lamport and Thos. Sause.
McGuire, P.,	489	21,417	14,261	27,248	27,248	53,819	36,3	36,3	Giles Ross and Andrew Myers.
McGovern, T. & Co.,	341	18,217	14,261	27,248	27,248	53,819	36,3	36,3	Jno. McKnight and A. McQuade.
McQuade, P.,	720	18,217	14,261	27,248	27,248	53,819	36,3	36,3	D. Wright and J. B. Sturtevant.
McDonald, J. Jr.,	187	18,217	14,261	27,248	27,248	53,819	36,3	36,3	Thurlow Weed.
McDonald, J.,	533	18,217	14,261	27,248	27,248	53,819	36,3	36,3	H. Brintnall and H. Swain.
Mills, T. G.,	163	24,009	15,150	31,530	32,474	58,660	40,176	40,176	Edward James.
Morris, W. W.,	618	21,821	14,773	22,695	27,491	31,315	31,315	31,315	G. S. Vincent and J. J. Grant.
Moore, R. L.,	53	16,175	12,138	30,618	32,767	35,582	31,691	31,691	W. W. Morris and T. A. Emmett, Jr.
Moore, W. H.,	424	18,226	16,392	33,130	33,130	58,662	40,176	40,176	Constant Cook.
Morgan, P. & Co.,	371	18,226	16,392	33,130	33,130	58,662	40,176	40,176	Edward P. Cowles.
Morgan, A. P.,	673 & 674	18,226	16,392	33,130	33,130	58,662	40,176	40,176	J. Stewart and J. Mc Clumpha.
McDonald, J. & Co.,	346	13,866	17,391	25,859	25,859	42,701	72,348	72,348	J. Sandford and J. Vicher.
McDonald, J. & Co.,	692	13,866	17,391	25,859	25,859	42,701	72,348	72,348	A. Matthews and J. W. Teller.
Mallory, D. & Co.,	119	17,391	25,859	32,692	36,682	31,966	49,160	49,160	James Brady and James Mahue.
Mathews, C. & Co.,	601	25,859	32,692	36,682	31,966	49,160	49,160	49,160	P. Murphy.
McNamara, H. & Co.,	541	18,226	16,392	33,130	33,130	58,662	40,176	40,176	Almarin Young and James Stewart.
McPhartlin, D.,	461	18,226	16,392	33,130	33,130	58,662	40,176	40,176	S. Dougherty and Oliver Johnson.
Mallory, D. G.,	697	22,614	14,820	32,692	36,682	31,966	49,160	49,160	John F. Rathbone.
Masterson, P. & Co.,	503 & 516	22,614	14,820	32,692	36,682	31,966	49,160	49,160	L. H. Northrup and D. Doubleday.
Nichols, J. H.,	543	22,614	14,820	32,692	36,682	31,966	49,160	49,160	Wm. Parmelee and E. Corning.
Northrup, H. R.,	726	22,614	14,820	32,692	36,682	31,966	49,160	49,160	Thos. James and A. Messereaux.
Phelps, W. & Co.,	521	22,614	14,820	32,692	36,682	31,966	49,160	49,160	
Pierce, H.,	521	22,614	14,820	32,692	36,682	31,966	49,160	49,160	

# PROPOSALS—(CONTINUED.)

Engineers' estimate.		\$26,929	\$10,524	\$24,671	\$23,964	\$25,115	\$49,912	\$27,142	NAMES OF GUARANTY.	
NAMES OF PROPOSERS.		NUMBER OF SECTION.								
No. of pro- position.		37.	40.	41 to 45.	51 to 56.	57.	58.	59.		
71	Palmer, David,	.....	.....	.....	.....	.....	.....	.....	Geo. Law and M. C. Story.	
332	Parkhurst, T. & Co.,	.....	.....	.....	.....	.....	.....	.....	E. James & W. Caldwell.	
713	Quackenbush, H. & Co.,	19,983	13,078	.....	.....	.....	.....	.....	S. P. Lyman.	
410	Quackenbush, J.,	.....	.....	.....	.....	21,110	40,755	25,677	J. Sinter and Harvey Hughes.	
285, 297	Richardson, P. & Co.,	16,229	10,132	25,502	27,270	26,085	37,270	25,151	T. N. Dillingham and Geo. Strover.	
490	Ransom, W. H.,	18,351	.....	.....	.....	24,866	35,842	25,870	James B. Taylor.	
470	Russell, S. P.,	19,164	.....	.....	.....	.....	.....	.....	H. C. Goodwin and M. McQuade.	
151	Reilly, J. & Co.,	15,072	.....	.....	.....	79,412	32,970	23,157	James Brady.	
78	Rose, J. R. & Co.,	.....	.....	.....	.....	.....	.....	33,812	John McKnight.	
265	Roof, J. J. & Co.,	14,602	10,345	.....	.....	22,450	32,877	22,791	M. L. Harris and J. S. Casler.	
270	Rodgers, D.,	14,878	.....	.....	.....	19,384	31,073	22,354	S. Voorhees and D. J. McMartin.	
7	Reed, J. B. & Co.,	.....	16,258	24,176	23,487	.....	45,216	27,293	W. G. Wait and S. G. Green.	
349	Rogers, P. & Co.,	.....	.....	.....	.....	24,451	.....	.....	F. S. Lamport and N. S. Richards.	
283	Rasback, J. & Co.,	.....	.....	.....	.....	.....	.....	.....	P. Remington and Chas. Gray.	
654	Richards, T. M.,	.....	.....	.....	.....	.....	.....	.....	M. L. Harris and T. R. Mitchell.	
543	Story, M. C.,	18,226	11,379	25,362	25,233	24,649	51,757	26,586	Geo. Law and David Palmer.	
406	Swart, A. & Co.,	13,926	8,985	.....	.....	.....	.....	.....	A. J. Yates and W. C. Wemple.	
813	Savage, J. & Co.,	20,278	19,694	34,980	43,964	92,069	50,098	38,105	Thomas James.	
411	Smith, J. C. & Co.,	18,359	10,520	.....	.....	.....	.....	.....	Benj. Frazee and C. S. Smith.	
336	Sanders, J. & Co.,	13,660	9,694	.....	.....	19,476	37,639	.....	J. and A. Groesbeck.	
39	Swart, J. & Co.,	12,615	.....	.....	.....	.....	.....	.....	J. Cady and Andrew Tuax.	
342	Storrs, H. E. & Co.,	20,652	13,752	.....	.....	30,919	54,604	35,962	Edward Eldridge and Samuel Wood.	
597	Schuyler, J. & Co.,	.....	23,769	.....	.....	.....	.....	.....	C. Mallory and J. J. Schuyler.	
154	Sanders, U.,	.....	.....	.....	.....	.....	46,663	.....	E. M. Sanders and Robert Harper.	
235	Smith, C. & Co.,	.....	.....	.....	.....	.....	40,226	.....	C. Smith and David Lohan.	
449	Shuler, W. S.,	.....	.....	.....	.....	.....	50,235	.....	S. Belding Jr., and S. Voorhees.	
77	Shultz, A.,	.....	.....	.....	.....	.....	36,482	41,486	26,826	
659	Swain, J. B. & Co.,	.....	.....	.....	.....	.....	51,120	27,305	H. J. Raymond and F. H. Ruggles.	
494	Starin, T. & Co.,	.....	.....	.....	.....	.....	23,177	33,986	G. F. Van Vleeten and W. B. Wemple.	
163	Schuyler, A.,	.....	.....	.....	.....	.....	34,724	24,399	Nicholas Schuyler.	





# PROPOSALS—(CONTINUED.)

Engineers' estimates,.....		\$45,267	\$27,041	\$52,219	\$23,796	\$23,559	\$14,712	\$4,321	NAMES OF GUARANTY.	
NAMES OF PROPOSERS.		NUMBER OF SECTION.								
No. of pro- position.		60.	61.	62.	73.	78.	83.	84.		
Allen S. & Co., .....	398 & 399	\$43,634	\$22,643	\$58,695	19,155	23,244	\$13,154	\$2,871	M. Western and A. J. Yates.	
Alexander, H. P. & Co., .....	632	.....	21,42	52,001	.....	.....	.....	.....	W. J. Skinner and Homer Caswell,	
Adams, W., .....	639	.....	23,150	54,577	.....	.....	.....	.....	H. P. Van Dresser.	
Burden, H. P. & Co., .....	327	.....	23,150	54,577	.....	.....	.....	.....	John Stafford and P. Whitmore.	
Britton, J. W. & Co., .....	652	.....	23,375	59,361	19,826	21,377	14,603	.....	A. Bell and S. Britton.	
Beach, J. S. & Co., .....	142	.....	.....	.....	.....	.....	.....	.....	H. Chapman and W. H. Beach.	
Brinnall, H. & Co., .....	321	50,270	53,678	125,541	16,851	40,283	11,979	2,380	John Wilkinson.	
Bretcher, F. D., .....	111	.....	.....	.....	.....	.....	.....	.....	J. and B. Stafford.	
Buell, W. W., .....	491	42,856	26,824	63,320	.....	.....	.....	.....	J. F. Johnson, Chief Eng'r T. & B. R. R.	
Luett, Orson, .....	636	42,736	22,313	66,952	.....	.....	.....	.....	W. W. Wright and P. V. Burliss.	
Digham, A. & Co., .....	639	45,047	26,707	55,734	22,854	25,739	17,341	4,99	I. Knekerbaeker.	
Bradshaw, H. B., .....	663	54,591	29,740	63,819	19,297	18,519	.....	.....	J. Sanford and D. Wright.	
Bell, Gen. & Co., .....	572	41,728	.....	.....	26,261	25,643	18,674	3,693	S. M. Payne and P. Barton.	
Barker, A. B., .....	22	.....	.....	.....	22,42	.....	.....	.....	M. Barhydt and Wm. Fuller.	
Barhydt, J. R. M., .....	26	48,624	26,926	59,837	20,319	18,941	14,017	3,047	E. Ford.	
Barton, W. & Co., .....	685	32,293	26,056	41,377	20,319	24,255	16,263	3,804	David Utley and Jno. Morris.	
Forsten, J. & Co., .....	419	43,770	.....	31,368	20,304	.....	.....	.....	John Darrow and Geo. Yost.	
Dowen, S., .....	701	.....	.....	.....	20,181	23,052	.....	.....	John Mosher and Henry Card.	
Juster, W. J., .....	379	.....	.....	.....	.....	.....	.....	.....	Charles L. Austin.	
Cornell, G. W. & Co., .....	562	51,161	31,743	.....	.....	.....	.....	.....	A. W. Ostrander & W. J. Nelson.	
Callender, G. F. & Co., .....	433	41,404	29,019	61,56	21,933	25,614	15,670	4,24	P. D. Collins and Chas. Duncan.	
Carlen, J. & Co., .....	50	42,618	21,348	.....	.....	.....	.....	.....	Henry J. Campbell and Chas. L. Austin.	
Campbell, S. B. & Co., .....	769	53,394	32,525	60,976	.....	.....	.....	.....	D. Tennison and S. Hart.	
Carmichael, B. F. & Co., .....	64	.....	.....	.....	.....	.....	.....	.....	G. R. Tarbell and W. S. Burrows.	
Candier, W. & Co., .....	716	38,476	21,65	51,47	18,756	21,008	14,02	3,480	I. F. Green and T. Green.	
Cudwell, J. W. & Co., .....	537	51,241	29,938	69,129	.....	.....	.....	.....	W. S. Pitcher.	
Cady, J., .....	666	34,199	24,951	63,745	22,686	26,783	15,908	3,93	Powell, Ramoate & Co.	
Coleman, W. & Co., .....	471	.....	.....	.....	.....	.....	.....	.....	Lewis Birdsell.	
Cleary, Wm. & Co., .....	318	47,379	25,821	62,236	23,374	26,025	15,500	3,880		
Cruget, Wm. H. & Co., .....	360	42,430	24,501	53,534	21,670	21,299	14,767	.....		

Craig, John, .....	126	45,053	25,509	57,291	.....	.....	.....	.....	Cornelius Gardiner and P. Van Evera.
Clement, L. M. & Co., .....	61	47,326	31,924	73,245	20,873	21,487	16,791	3,829	John Bartlett and D. P. Forrest.
Cole, Enos & Co., .....	56 & 62	44,362	29,897	69,180	16,964	.....	.....	.....	Thos. R. Horton and Wm. Clark.
Clark, Wm. & Co., .....	40	.....	.....	.....	.....	.....	.....	.....	H. D. Ward and L. Spraker.
Cady, H. C., .....	174	.....	.....	.....	.....	.....	.....	.....	A. J. Yates and John Crag.
Cummings, W. A., .....	629	62,232	40,565	90,829	.....	.....	.....	.....	John Pan and Alex. McGuire.
Chapman, W. R. & Co., .....	310	.....	28,492	61,363	.....	.....	.....	.....	C. C. Keaton and A. Flak.
Collins, J. & Co., .....	87	49,694	31,398	69,877	21,381	.....	.....	.....	William Beard and Jas. Fleill.
Cox, D. C. & Co., .....	116	.....	.....	.....	.....	.....	.....	.....	S. Elwood and L. Averill.
Caswell, H. & Co., .....	156	.....	.....	.....	.....	.....	.....	.....	James Keeter and H. P. Alexander.
Decker, N. H., .....	127	42,119	22,919	56,600	18,871	24,119	14,717	4,319	Hugh McClellan.
Decker, J. H., .....	23	.....	.....	.....	21,126	70,259	15,319	3,265	Wm. Eggleston and J. McDonald, jr.
De Gray, C. J. & Co., .....	262	34,013	19,122	39,635	16,483	16,642	14,175	2,780	R. C. Kenyon and H. H. Coats.
De Forrest, D. D., .....	260 & 263	.....	.....	.....	.....	.....	11,648	.....	John Stewart and Isaac Jackson.
Dunham, A. T., .....	533	56,708	30,202	69,653	.....	.....	.....	.....	A. G. Sage and E. H. St. John.
Dyckman, P. H., .....	525	46,794	28,424	64,822	20,581	22,539	.....	.....	Austin Myers and C. S. Bromley.
Elwood, A., .....	320	34,830	.....	.....	15,491	20,362	.....	.....	Nicholas Schuyler.
Elwood, H., .....	188	36,910	.....	.....	16,776	18,256	.....	.....	R. Elwood and J. Barbydt.
Fennet, A. & Co., .....	208	41,079	22,070	66,114	20,303	.....	.....	.....	E. Doron.
Fisher, T. H. & Co., .....	606	35,208	26,609	46,481	23,411	19,238	14,818	4,500	Russell Sage and S. Norton.
Fennell, J. & Co., .....	330	.....	.....	.....	.....	.....	.....	.....	Cornelius Gardiner.
Fonda, J., .....	175	.....	.....	.....	.....	.....	.....	.....	Lawton Benson & C. B. Chase.
Fisher, John, .....	49	.....	.....	.....	.....	.....	.....	.....	Abram D. and Henry Fonda.
Fonda, P. H., .....	573	43,368	.....	.....	.....	.....	.....	.....	J. J. Schuyler and Charles Diefendorf.
Gray, John J., .....	592	33,145	29,005	57,408	19,083	21,719	14,179	3,035	Wm. Clark and S. Tingue.
Gross, D. & Co., .....	436	.....	.....	.....	21,132	22,107	.....	.....	John Palmer and Abram Christman.
Graham, G. & Co., .....	64	42,281	22,755	47,480	.....	.....	.....	.....	John Putnam and Marquis Barnes.
Gardiner, C. & Co., .....	708	.....	.....	.....	.....	.....	.....	.....	Wm. Herkimer and M. Caldwell.
Green, Z., .....	687	.....	.....	.....	24,165	25,427	16,804	2,704	Wm. S. Kelley.
Grege, E. D., .....	694	.....	.....	.....	21,093	20,036	11,896	4,332	J. N. Lake and H. Nolton.
Greene, F., .....	225	.....	.....	.....	.....	.....	.....	.....	Leonard R. Sargeant.
Healy, J., .....	266	45,837	26,947	70,103	18,387	24,729	11,908	4,780	Henry Evans and John Peters.
Hague, A. & Co., .....	289	32,776	18,458	47,018	16,918	18,032	11,535	.....	Wm. and Chas. Kingsbury.
Haight, S. R., .....	306	38,188	22,211	41,653	15,396	.....	.....	.....	Oliver Johnson and John Sweeny.
Haggerty, J. & Co., .....	635	49,827	26,972	.....	.....	.....	.....	.....	H. Van Slyck and A. Boyce.
Haverly, N. W., .....	168	.....	.....	.....	.....	.....	.....	.....	Samuel Hart and J. B. Stafford.
Hart, M., .....	112	.....	.....	.....	.....	25,670	.....	.....	S. S. M. Barbydt and N. J. Schormerhorn.
Johnson, Daniel, .....	622	.....	.....	.....	.....	.....	.....	.....	J. S. Beiding, jr. and James Morris.
Jackson, Isaac & Co., .....	253	46,320	25,675	66,462	21,001	23,094	.....	.....	J. W. Wilson and Jno. Stewart.
Johnson, R. & Co., .....	357	.....	.....	.....	18,061	21,004	12,769	.....	.....
Klyne, J. W. & Co., .....	408	44,501	.....	24,716	.....	.....	.....	.....	.....

## PROPOSALS—(CONTINUED.)

Engineers' estimates, .....		\$45,267	\$27,041	\$52,249	\$23,796	\$23,580	\$14,713	\$4,321	NAMES OF GUARANTY.	
		NUMBER OF SECTION.								
		60.	61.	62.	75.	78.	83.	84.		
NAMES OF PROPOSERS.										
No. of pro- position.										
370	Levi, B. & Co., .....	50,089	30,803	64,112	.....	.....	.....	.....	David Nelliger and James Cashin.	
34	Learned C. G. & Co., .....	.....	.....	.....	.....	.....	.....	.....	Edward Learned and B. H. Cheever.	
209	Livernore, J., .....	.....	.....	.....	.....	.....	.....	.....	David P. Corey.	
555	Luddington, M. E. & Co., .....	.....	.....	.....	.....	.....	.....	.....	G. J. De Graw and John De Wolf.	
696	Loomis, H. & Co., .....	40,373	97,863	169,896	20,763	57,010	17,466	4,589	E. Thomas and D. L. Farnham.	
230	Lynch, B. & Co., .....	inform'l	23,831	59,399	27,404	.....	.....	.....	J. A. Cross and G. Elsham.	
789	Moss, J. B., .....	.....	.....	.....	.....	.....	.....	.....	J. F. Russell.	
546	McCue, J. J., .....	46,374	25,724	64,475	.....	.....	.....	.....	D. D. Campbell and J. W. Schuyler.	
439	McGuire, P., .....	71,576	80,376	.....	.....	.....	.....	.....	F. S. Lampert and Thos. Sausse.	
341	McGovern, T. & Co., .....	.....	.....	.....	.....	.....	.....	.....	Giles Ross and Andrew Myers.	
730	McQuade, P., .....	47,176	30,208	57,109	.....	24,797	.....	3,285	John McKnight and A. McQuade.	
187	McDonald, J., jr., .....	52,399	23,599	47,885	.....	.....	.....	.....	D. Wright and J. B. Sturtevant.	
533	McDonald, J., .....	41,074	23,562	70,890	19,726	22,107	14,699	4,944	Thurlof Weed.	
163	Mills, T. G., .....	41,658	23,562	70,890	.....	.....	.....	.....	H. Brintnall and H. Swain.	
618	Morris, W. W., .....	60,540	35,145	80,706	.....	.....	.....	.....	Edward James.	
53	Moore, R. L., .....	36,821	21,085	43,682	19,934	22,238	14,031	4,028	G. S. Vincent and J. J. Grant.	
228	Morell, W. H., .....	51,054	33,103	73,925	.....	.....	.....	.....	W. W. Morris and T. A. Emmet, jr.	
371	Morgan, P. & Co., .....	39,788	24,823	58,453	18,639	22,741	15,569	2,723	Constant Cook.	
673, 674	McDonald, A. P., .....	56,740	31,343	65,361	24,252	25,885	16,846	5,139	Edward P. Cowles.	
346	McDonald, J. & Co., .....	.....	.....	.....	.....	.....	.....	.....	J. Stewart and J. McClumpha.	
692	Mallory, D. & Co., .....	.....	.....	.....	.....	.....	.....	.....	J. Sandford and J. Vischer.	
119	Mathews, C. & Co., .....	.....	.....	.....	.....	.....	.....	.....	A. Matthews and J. W. Teller.	
601	McNamara, H. & Co., .....	48,424	.....	62,276	.....	.....	.....	.....	James Brady and James Mahue.	
641	McPhartlin, D., .....	84,988	34,688	.....	53,714	62,839	36,448	5,180	P. Murphy.	
461	Mallory, D. G., .....	.....	.....	.....	.....	.....	.....	.....	Almarin Young and James Stewart.	
697	Masterson, P. & Co., .....	49,812	33,903	.....	.....	.....	.....	.....	S. Dougherty and Oliver Johnson.	
508, 516	Nichols, J. H., .....	55,253	31,209	68,696	23,776	26,825	18,197	5,363	John F. Rathbone.	
543	Northrup, H. E., .....	.....	.....	.....	28,241	31,828	21,039	4,277	L. H. Northrup and D. Doubleday.	
725	Phelps, W. & Co., .....	44,457	20,200	63,126	.....	.....	.....	.....	Wm. Parmelee and E. Corning.	
521	Pierce, H., .....	31,900	.....	41,969	16,633	.....	.....	.....	Thos. James A. Messereaux.	

71	Palmer, David, .....	25,534	1b,302	4,282	Geo. Law and M. C. Storey.	
332	Part hurst, T. & Co., .....	19,392	13,376	4,304	E. James and W. Caldwell.	
713	Quackenbush, H. & Co., .....	21,759	35,109	.....	S. P. Lyman.	
410	Quackenbush, J., .....	18,319	21,092	.....	J. Sinter and Harvey Hughes.	
286	Richardson P. & Co., .....	19,413	19,993	3,739	T. N. Dillingham and Geo. Strover.	
490	Ransom, W. H., .....	69,708	.....	.....	James B. Taylor.	
470	Russell, S. P., .....	.....	.....	.....	H. C. Goodwin and M. McQuade.	
151	Reilly, J. & Co., .....	22,291	.....	.....	James Brady.	
78	Rose, J. R. & Co., .....	18,768	23,669	17,163	John McKnight.	
265	Roof, J. J. & Co., .....	37,625	17,904	11,318	M. L. Harris and J. S. Casler.	
270	Rodgers, D., .....	46,710	.....	.....	S. Voorhes and D. J. McMartin.	
7	Reed, J. B. & Co., .....	.....	.....	.....	W. G. Wait and S. G. Green.	
349	Rogers, P. & Co., .....	.....	.....	.....	F. S. Lamport and N. S. Richards.	
283	Raback, J. A. & Co., .....	285,530	161,535	.....	P. Kemington and Chas. Gray.	
604	Richards, T. M., .....	24,367	.....	.....	M. L. Harris and T. B. Mitchell.	
503	Storey, M. C., .....	57,211	24,396	15,362	Geo. Law and David Palmer.	
405	Swart, A. & Co., .....	.....	.....	4,282	A. J. Yates and W. C. Wemple.	
813	Savage, J. & Co., .....	71,965	31,177	19,846	Thomas James.	
411	Smith, J. C. & Co., .....	23,761	.....	5,351	Benj. Frazee and C. S. Smith.	
336	Sanders, J. & Co., .....	.....	.....	.....	J. and A. Groesbeck.	
39	Swart, J. & Co., .....	.....	.....	.....	J. Cady and Andrew Trux.	
342	Storrs, H. E. & Co., .....	73,385	24,570	18,615	Ed. Eldridge and Sam. Weed.	
597	Schuyler, J. & Co., .....	.....	28,829	3,457	C. Mallory and J. J. Schuyler.	
154	Sanders, U., .....	76,189	.....	.....	E. M. Sanders and Robert Harper.	
235	Smith, C. & Co., .....	18,301	.....	14,381	C. Smith and David Lohan.	
449	Shuler, W. S., .....	51,431	.....	.....	S. Belding, Jr. and S. Voorhes.	
77	Shultz, A., .....	25,272	.....	.....	James B. Taylor.	
659	Swain, J. B. & Co., .....	659	.....	.....	H. J. Raymond and F. H. Ruggles.	
494	Starin, T. & Co., .....	.....	.....	.....	G. F. Van Vechten and W. B. Wemple.	
162	Schuyler, A., .....	17,827	17,598	11,758	Nicholas Schuyler.	
120	Sammons, S. & Co., .....	51,328	23,005	24,032	Wm. S. Shuler and Isaac Jackson.	
145	Stimson, S. W. & Co., .....	58,943	21,578	.....	See lock prop.	
318	Smith, Geo., .....	106,807	.....	.....	A. B. Dickinson and T. M. Niven.	
273	Stewart, J., .....	45,601	.....	.....	S. Belding, jr. and Alex. Sheldon.	
350	Schuyler, N. N., .....	17,708	17,459	.....	Abram Edwood.	
311	Schuyler, N., .....	19,517	20,073	14,444	Thomas Countyman.	
141	Smith, J. P., .....	58,885	27,454	17,483	D. M. Richmond	
625	Shel, John, .....	26,584	26,451	16,490	4,693	H. M. Birch and Lewis Haupt.
5	St. John, E. H. & Co., .....	28,157	23,672	4,298	B. H. Sage and J. B. Ohollar.	
599	St. John, Josiah, .....	24,127	17,263	4,174	Lewis Green and P. A. Starin.	
703	Tobie, Peter & Co., .....	62,802	.....	.....	John Darrow and Solomon Bowen.	

# PROPOSALS—(CONTINUED.)

Engineers' estimates.....	NUMBER OF SECTION.						NAMES OF GUARANTY.
	60.	61.	62.	75.	78.	83.	84.
\$45,267	\$27,041	\$52,249	\$23,796	\$23,590	\$14,713	\$4,321	
NAMES OF PROPOSERS.	No. of pro- position.						
Uher, William & Co., .....	580	29,315	61,775	23,675	.....	.....	H. Doolittle and E. N. Caswell.
Uher Bloomfield, .....	2	.....	.....	.....	.....	.....	Wm. Uher and E. P. Alexander.
Vrooman, J. N., .....	450	27,769	56,622	.....	.....	16,819	A. Van Verst and Wm. McCamus.
Van Der Kart, L. & Co., .....	603	30,378	71,869	24,873	26,880	18,765	Thomas Van Der Kart and R. Powers.
Van Zile, Jesse, .....	36	35,416	77,303	31,018	35,444	.....	Benj. Marshall and John A. Griswold.
VandeBogart, N. & Co., .....	241,	24,009	47,253	20,341	23,446	16,849	M. Barbydt and Wm. McCamus.
Vedder, H. U., .....	446	.....	.....	.....	.....	.....	A. M. and S. Y. Vedder.
Van Horne, C. T. E. & Co., .....	431	18,257	62,808	21,073	22,093	13,667	H. P. Alexander and H. Doolittle.
Van Slyck, H. & Co., .....	79	.....	.....	.....	.....	.....	M. W. Haverly and Abram Boyce.
Vischor, J. W. & Co., .....	437	.....	.....	.....	.....	.....	George Howe.
Vandenbergh, W. L. & Co., .....	345	26,916	52,243	.....	.....	.....	John Putnam and Marquis Barnes.
Van Arnam, A. H. & Co., .....	496	.....	.....	.....	.....	.....	J. M. Miller and John Kosavelt.
Van Voort, J. B. & Co., .....	12	.....	.....	26,402	.....	17,730	P. Potter and H. C. Van Vorst.
Vrooman, F. C., .....	52	.....	.....	.....	.....	14,316	John N. Vrooman and E. R. Dow.
Van Deusan, .....	323	56,057	69,293	.....	.....	.....	John Stafford.
Woodruff, D. H. & Co., .....	182	.....	.....	.....	.....	.....	C. L. Woodruff and Wm. H. De Witt.
Williams, Geo. & Co., .....	334	51,566	30,462	.....	.....	.....	Horace Hunt and J. O. H. Rockfellow.
Wilcox, O. & Co., .....	398	.....	.....	.....	.....	.....	J. B. Wilcox and G. Benedict.
Wemple, W. C. & Co., .....	362	46,699	50,579	.....	.....	.....	Reuben Elwood and Aaron Swart.
Ward, H. D. & Co., .....	669	41,186	56,141	20,482	.....	.....	Wm. Clark and E. H. Cushney.
Yates, A. J., .....	98	23,178	56,124	18,917	.....	.....	G. F. Van Vechten and W. B. Wemple.
Yost, D. & Co., .....	706	.....	.....	16,860	17,641	.....	Geo. Yost and J. Darrow.
RAISING TOWING PATH OF CHAMPLAIN CANAL.							
Cullen, J. & Co., .....	493	.....	.....	.....	.....	.....	J. V. Oothout and C. Duncan.
Landon, H. L. & Co., .....	614	.....	.....	.....	.....	.....	M. White and T. McEntee.

## PROPOSALS—(CONTINUED.)

Engineer's estimate,.....	\$25,996	\$24,860	\$37,443	\$26,131	\$37,267	\$31,033	NAMES OF GUARANTY.	
LOCES.								
No. of propo- sition.	No. 2.	No. 24.	No. 33.	No. 34.	No. 38.	No. 39.		
Britton, J. W. & Co., .....	27,542	25,198	27,081	\$24,726	\$25,714	\$29,200	A. Bell and Samuel Swain.	
Bull, J. P. & Co., .....	35,232	29,600	36,301	29,629	32,216	37,016	J. Bouton and S. Douglass.	
Birchard, B. & Co., .....	27,306	27,306	32,834	24,644	.....	.....	Constant Cook.	
Brophy, Stephen B. & Co., .....	31,977	24,009	29,825	.....	.....	.....	W. H. Roosevelt.	
Bradshaw, H. B., .....	50,896	26,200	29,125	20,614	27,243	30,724	J. Knickerbocker.	
Betticher, P. D., .....	.....	.....	26,833	25,945	26,659	39,968	J. and B. Stafford.	
Bogart, D. & Co., .....	.....	32,924	26,070	25,142	32,934	36,899	W. Clark and S. Elwood.	
Borden, Joseph & Co., .....	.....	.....	26,495	23,934	.....	.....	David Uttley.	
Boyer, Joseph Jr. & Co., .....	.....	.....	.....	.....	28,358	31,530	H. P. Alexander and W. J. Skinner.	
Butler, Ezekiel, .....	1	.....	.....	.....	27,097	30,166	W. Kimball and R. V. Sowers.	
Coleman, William & Co., .....	31,368	20,401	32,410	27,364	26,483	29,426	Matthew S. Pitcher.	
Caldwell, J. W. & Co., .....	33,652	26,834	29,713	28,761	26,703	31,952	Geo. S. Turbell and W. G. Burrows.	
Cole, Enos & Co., .....	21,743	23,031	26,698	23,443	26,596	30,356	Thos. R. Horton and W. Clark.	
Campbell, S. B. & Co., .....	29,000	31,434	35,302	31,505	34,489	38,476	H. J. Campbell and Chas. L. Austin.	
Cummings, J. P. & T., .....	41,969	.....	.....	.....	.....	.....	James Pollock and Jas. N. Wells.	
Clifford, John & Co., .....	.....	33,099	.....	.....	.....	.....	C. S. Grinnell and Wm. Sleeman.	
Cruget, W. H. & Co., .....	.....	26,697	28,811	27,324	28,477	30,291	Lewis Birdsall.	
Cashin, James, .....	.....	29,469	.....	.....	.....	.....	Patrick Rogers.	
Clement, L. M. & Co., .....	475	27,452	.....	.....	.....	.....	J. Mariott, D. P. Forrest and S. H. Johnson.	
Clark, William & Co., .....	.....	.....	29,071	26,713	.....	.....	R. H. Cushman and H. D. Ward.	
Dyelman, P. H., .....	.....	.....	29,137	23,444	.....	.....	Austin Myers and G. S. Bromley.	
Dunick, Levi & Co., .....	209	26,731	.....	.....	.....	.....	E. B. Smith and H. E. Storrs.	
Dockette, H. & Co., .....	651	.....	.....	.....	27,061	30,892	W. J. Skinner and H. P. Alexander.	
Elwood, Abram, .....	352	.....	27,745	24,440	24,831	37,697	Nicholas Schuyler.	
Ehle, Chauncey and Co., .....	116	.....	31,046	26,916	.....	.....	P. J. Wagner and J. W. Hamilton.	
Eysman, Henry & Co., .....	381	.....	.....	.....	29,567	39,041	Geo. Rasbeck and Fred. Reese.	
Elwood, James E. & Co., .....	132	.....	.....	.....	.....	28,897	C. Elwood, and G. B. Judd.	
Fisher, Thomas H. & Co., .....	454	27,965	25,898	.....	24,683	29,807	J. E. Whipple.	
Fritcher, Peter, .....	848	24,378	.....	.....	.....	.....	J. McCumpha and Almarin Young.	
Farwell, Samuel & Co., .....	133	24,864	27,321	24,893	25,431	27,687	J. S. T. Stranahan.	

## PROPOSALS—(CONTINUED.)

Engineer's estimates.	No. of proposition.	LOCKS.						NAMES OF GUARANTY.
		No. 2.	No. 24.	No. 32.	No. 34.	No. 38.		
						No. 39.		
Fraser, Benjamin,	638	.....	.....	\$26,104	.....	.....	\$26,877	John O. Fraser and C. Vrooman.
Filkins, Cornelius,	385	.....	.....	24,329	\$23,637	\$25,036	29,137	Nicholas N. Schuyler.
Hague, Andrew & Co.,	288	\$21,674	\$19,449	26,240	-18,523	20,612	23,170	Henry Evans and John Peters.
Helmer, Joseph W.,	236	19,852	.....	.....	.....	.....	.....	Nicholas Schuyler.
Higgins, John,	644	26,877	31,080	30,902	30,993	37,203	46,251	Charles L. Austin.
Haight, S. R.,	304	.....	25,026	26,583	20,794	24,386	26,083	William and Charles Kingsbury.
Jackson, Isaac & Co.,	291	34,607	28,897	32,355	26,911	33,716	38,186	S. Belding, Jr., and Jacob Morris.
Johnson, Robert & Co.,	356	.....	.....	24,881	19,764	26,151	27,603	H. P. Alexander and George H. Feeter.
Learned, E. & Co.,	48	31,091	26,002	31,376	26,815	28,573	31,949	Arch. Dunlop and Thomas H. Cloves.
Lewis, Samuel,	586	24,723	.....	.....	.....	.....	.....	R. W. Chubbink and E. T. Ballard.
Logan, W. & Co.,	477	.....	36,124	.....	.....	.....	.....	D. J. McMartin and John Stewart.
Murray, Edward,	648	29,600	32,684	35,856	.....	.....	.....	M. Schoonmaker and J. Clinton.
McDonald, James,	534	25,707	22,894	.....	.....	.....	.....	Thurlof Weed.
McQuade, Patrick,	522	32,327	28,445	28,517	27,773	28,580	32,986	J. McKnight and A. McQuade.
McDonald, John Jr.,	135	25,790	22,432	22,623	23,014	.....	27,437	D. Wright and Jno. B. Sturtevant.
Mallory, James H.,	458	32,263	28,475	31,641	26,308	29,264	32,659	Homer Ramsdale and D. Moore.
McDonald, Angus P.,	672	30,011	28,002	33,325	27,668	27,268	30,771	E. P. Cowles.
Morris, W. W. & Co.,	619	.....	29,099	40,031	29,979	31,212	34,691	Edward James.
Myers, Austin & Co.,	560	.....	24,814	29,747	25,894	26,479	29,460	W. W. Morris and Thomas A. Emmett, jr.
Morell, W. H.,	90	.....	28,237	.....	.....	.....	.....	Henry Swan and H. Brintnall.
Millia, Theodore G. & Co.,	641	.....	21,381	21,193	21,449	21,533	24,760	G. Ross and A. Myers.
McGown, T. & Co.,	361	.....	42,277	49,971	42,550	43,223	48,129	E. D. Gregg and Daniel Johnson.
McQue, J. J.,	691	.....	.....	.....	.....	.....	.....	James Stewart and Almarin Young.
Mallory, David H.,	460	.....	.....	.....	24,146	.....	.....	John F. Rathbone.
Nichols, John H.,	628	32,213	26,370	36,201	26,729	27,490	30,866	Joseph Clinton and W. Davis.
Knece, Luke & Co.,	647	23,137	26,534	31,807	.....	.....	.....	Isaac S. and Lucius Newton.
Newton, William & Co.,	82	.....	.....	.....	.....	25,878	29,275	Geo. Law and M. C. Storey.
Palmer, David,	73	28,041	25,373	26,377	26,223	27,047	30,037	S. Voorhees and D. J. McMartin.
Rogers, David,	268	23,722	21,177	23,252	21,530	24,959	27,777	.....

Reynolds, Thomas & Co.,	105	25,649	21,825	23,019	11,028	24,573	27,327	Edward Dodd.
Richardson, Phineas & Co.,	206	25,372	23,365	25,262	19,366	24,699	27,877	Geo. Stover and T. N. Dillingham.
Rasbeck, J. M. & Co.,	277	.....	.....	27,214	22,717	28,390	28,862	P. Remington and Chas. Gry.
Stewart, James,	272	25,124	23,793	25,468	21,804	24,998	27,975	S. Belding, Jr. and Alexander Sheldon.
Sturtevant, John A. & Co.,	464	30,743	26,976	30,982	27,799	29,795	.....	John Sanford and D. Wright.
Sturge, James & Co.,	817	41,868	37,161	41,730	39,566	42,441	47,988	Thomas James.
Schuyler, Aaron,	161	17,862	16,183	.....	15,978	16,939	19,865	Nicholas Schuyler.
Storey, Miner C.,	500	27,106	24,437	29,844	25,306	27,365	30,484	George Law and David Palmer.
Storrs, H. E.,	404	29,210	27,198	32,162	28,845	20,493	29,431	Ed. Eldridge and Sam. Weed.
Swart, Aaron & Co.,	405	.....	27,154	.....	.....	.....	.....	A. J. Yates and J. Swart.
Shuler, W. S.,	447	24,598	24,598	.....	.....	.....	.....	Shuler Cady and George Yost.
Bobermerhorn, M. L. & Co.,	207	24,345	.....	28,910	28,602	29,068	32,842	W. R. Ford and R. J. Grant.
Stadford, Brown,	646	.....	30,705	30,705	29,602	30,812	30,717	J. Stafford and P. D. Betticher.
Saunders, James & Co.,	384	.....	29,605	30,982	29,605	30,812	33,860	H. M. Birch and Nelson Rust.
Stimpson, Sam. W. & Co.,	258	.....	25,331	28,113	28,113	30,734	31,826	H. Caswell and F. P. P. Bellinger.
Schuyler, Nicholas,	394	.....	25,146	23,170	29,400	29,400	31,826	Thomas Countryman.
Schuyler, Nicholas N.,	321	.....	23,418	20,928	26,556	26,556	32,880	Abraham Elwood.
Sage, A. G. & Co.,	434	.....	27,131	26,011	35,805	35,805	.....	J. B. Chollar and Benjamin H. Sage.
Sage, Hezekiah,	227	.....	27,464	25,213	.....	.....	30,737	John Sanford.
Smith, John C. & Co.,	412	.....	28,614	24,989	.....	.....	28,492	Benjamin Frazee and Solah Smith.
St. John, E. M. & Co.,	435	.....	31,518	31,820	34,596	34,596	38,139	M. E. Luddington and A. G. Sage.
Taylor, E. & Co.,	675	32,747	27,633	23,130	21,225	27,871	31,364	D. H. Woodruff and J. P. Brayton.
Tobie, Peter & Co.,	704	.....	.....	.....	.....	27,019	32,433	John Darrow and Sol. Bowen.
Usher, William & Co.,	.....	.....	.....	.....	.....	.....	.....	H. Caswell and William J. Skinner.
Upton, John & Co.,	16	33,780	.....	.....	.....	.....	38,492	P. D. McNabb and Thomas Cowell.
Utley, David,	335	.....	25,693	22,734	26,680	26,680	29,254	William H. Hill.
Van Deburg, M. & Co.,	244	35,615	32,732	28,691	30,648	30,648	36,206	See Lock proposition.
Van Zile, Jesse,	38	32,180	27,795	33,318	28,171	28,427	31,364	Benjamin Marshall and John A. Griswold.
Van De Mark, John & Co.,	684	26,066	22,988	.....	.....	.....	.....	S. E. Ford.
Van Der Karr, L. & Co.,	70	34,087	38,499	38,144	33,508	34,009	38,492	T. Van Der Karr and R. Powers.
Vroessan, J. N.,	549	30,652	30,652	.....	.....	.....	.....	A. A. Van Voort and William McCamus.
Vedder, H. U.,	442	25,527	25,527	36,803	.....	.....	.....	A. M. and S. Y. Vedder and J. Cady.
Van Evers, E. K. & Co.,	253	.....	.....	.....	.....	.....	.....	A. N. Van Alstyne and S. Sammons.
Wright, William W.,	707	31,428	.....	.....	.....	.....	.....	H. Randall and H. J. Hastings.
Wilcox, Charles,	389	33,612	30,262	29,394	24,899	25,820	29,297	J. B. Wilcox and G. Benedict.
Williams, George & Co.,	335	24,994	24,994	23,403	21,166	21,565	24,423	A. Hunt and J. O. H. Rockfellow.
Williams, W. H.,	205	25,772	25,772	29,649	23,622	26,692	30,030	Thomas Burch and S. M. Richmond.
Wiles, John L.,	157	.....	.....	.....	.....	.....	.....	M. L. Harris and G. P. Van Alstyne.
Wells, A. H. & Co. (Wells with'd'n.)	520	35,359	.....	.....	.....	.....	.....	P. C. Van Wyck.
Wiles, Henry,	358	.....	84,246	27,371	.....	.....	.....	Alexander Eggleston and P. Rogers.
Ward, H. D. & Co.,	668	.....	29,202	26,668	.....	.....	.....	W. Clark and R. H. Cushman.



# PROPOSALS—(CONTINUED.)

Engineers' estimates,.....		\$45,267	\$27,041	\$52,219	\$23,796	\$23,59	\$14,712	\$4,32
NAMES OF PROPOSERS.		NUMBER OF SECTION.						
No. of pro- position.		60.	61.	62.	73.	78.	83.	84.
Allen S. & Co., .....	398 & 399	\$43,634	\$22,643	\$58,695	19,155	.....	\$13,154	\$2,878
Alt-xander, H. P. & Co., .....	632	.....	21,42	52,000	.....	23,244	.....	.....
Adams, W., .....	639	39,520	23,180	54,577	.....	.....	.....	.....
Burden, H. P. & Co., .....	627	45,565	25,375	59,361	19,826	21,377	14,603	.....
Britton, J. W. & Co., .....	632	.....	.....	.....	.....	.....	.....	.....
Beach, J. S. & Co., .....	142	.....	.....	.....	.....	.....	.....	.....
Brintall, H. & Co., .....	321	50,270	53,678	125,541	15,851	40,285	11,979	2,384
Bretcher, I. D., .....	111	.....	.....	.....	.....	.....	.....	.....
Buell, W. W., .....	491	42,356	26,824	63,320	.....	.....	.....	.....
Luels, Orson, .....	586	42,736	22,313	66,952	.....	.....	.....	.....
Digham, A. & Co., .....	589	45,047	26,707	55,734	.....	.....	.....	.....
Bradshaw, H. B., .....	665	54,591	29,740	63,849	.....	.....	.....	.....
Bell, Geo. & Co., .....	672	41,728	.....	.....	22,884	25,738	17,341	4,99
Barby, J. B., .....	22	.....	.....	.....	19,291	18,519	.....	.....
Barby, J. B. M., .....	26	48,624	26,926	59,837	22,42	28,643	18,674	3,693
Barton, W. & Co., .....	685	32,293	26,086	41,377	20,819	18,941	13,649	3,838
Barton, J. & Co., .....	419	43,770	.....	53,981	20,304	24,255	14,017	3,047
Dowan, S., .....	701	.....	.....	.....	.....	.....	16,262	3,804
Butler, W. J., .....	379	.....	.....	20,181	.....	23,052	.....	.....
Cornel, G. W. & Co., .....	562	51,181	31,741	.....	.....	.....	.....	.....
Callenau, G. F. & Co., .....	433	43,404	24,019	61,56	21,933	25,614	15,670	4,94
Cirles, J. & Co., .....	50	42,618	27,38	.....	.....	.....	.....	.....
Campbell, S. B. & Co., .....	249	53,394	32,526	60,976	.....	.....	.....	.....
Carmichael, B. F. & Co., .....	64	.....	.....	.....	.....	.....	.....	.....
Candee, W. & Co., .....	716	38,476	21,63	51,57	18,756	21,008	14,021	3,480
Cadwell, J. W. & Co., .....	537	51,241	29,986	69,124	.....	.....	.....	.....
Casidy, J., .....	666	34,199	24,951	63,785	22,696	26,783	15,948	3,93
Coleman, W. & Co., .....	471	.....	.....	.....	.....	.....	.....	.....
Clary, Wm. & Co., .....	318	47,379	24,821	62,236	23,378	26,925	15,400	3,830
Cruzer, Wm. H. & Co., .....	300	42,430	24,504	53,534	21,670	24,295	14,767	.....
NAMES OF GUARANTY.								
M. Western and A. J. Yates.								
W. J. Skinner and Homer Caswell,								
H. P. Van Dresser.								
John Stafford and P. Whitmore.								
A. Bell and S. Britton.								
H. Chapman and W. H. Beach.								
John Wilkinson.								
J. and B. Stafford.								
S. F. Johnson, Chief Eng'r T. & B. R. R.								
W. W. Wright and P. V. Burliss.								
I. Knickerbocker.								
I. Sanford and D. Wright.								
S. M. Payne and P. Barton.								
W. Barbydt and Wm. Fuller.								
E. Ford.								
David Utley and Jno. Morris.								
John Darrow and Geo. Yost.								
John Musher and Henry Card.								
Charles L. Austin.								
A. W. Garrander & W. J. Nelson.								
P. D. Collins and Chas. Duncan.								
Henry J. Campbell and Chas. L. Austin.								
D. Dennison and S. Hart.								
G. R. Tarbell and W. S. Burrows.								
I. F. Green and T. Green.								
V. S. Plicher.								
Powell, Ramoale & Co.								
Lewis Birdsell.								

126	Craig, John, .....	45,083	25,509	57,291	.....	.....	.....	Cornelius Gardiner and P. Van Evert.
61	Clement, L. M. & Co., .....	47,346	31,924	73,285	20,878	21,487	15,791	John Mariett and D. P. Forrest.
86 & 62	Cole, Enos & Co., .....	44,362	29,897	69,180	16,964	.....	.....	Thos. R. Horton and Wm. Clark.
40	Clark, Wm. & Co., .....	.....	.....	.....	.....	.....	.....	H. D. Ward and L. Spraker.
174	Cady, H. C., .....	.....	.....	.....	.....	.....	.....	A. J. Yates and John Craig.
629	Cummings, W. A., .....	62,232	40,565	90,829	.....	.....	.....	John Pan and Alex. McGuire.
310	Chapman, W. R. & Co., .....	28,492	61,303	.....	.....	.....	.....	C. C. Keaton and A. Flak.
87	Collins, J. & Co., .....	49,694	31,398	69,877	21,381	.....	.....	William Beard and Jas. Flellin.
116	Cox, D. C. & Co., .....	.....	.....	.....	.....	.....	.....	S. Elwood and L. Averill.
156	Caswell, H. & Co., .....	42,119	22,919	55,600	18,871	24,119	14,717	James Keeter and H. P. Alexander.
127	Decker, N. H., .....	.....	.....	.....	.....	70,259	15,319	Hugh McClellan.
23	Decker, J. H., .....	.....	.....	.....	.....	.....	14,175	Wm. Eggleston and J. McDonald, jr.
260 & 262	De Gray, C. J. & Co., .....	34,013	19,122	39,535	16,483	16,642	11,642	R. C. Kenyon and H. H. Coals.
283	De Forrest, D. D., .....	.....	.....	.....	.....	.....	.....	John Stewart and Isaac Jackson.
533	Dunham, A. T., .....	56,708	30,202	69,553	.....	.....	.....	A. G. Sage and E. H. St. John.
525	Dyckman, P. H., .....	46,794	28,424	64,822	20,581	22,539	.....	Austin Myers and C. S. Bromley.
320	Elwood, A., .....	34,830	.....	15,491	16,776	20,362	.....	Nicholas Schuyler.
188	Elwood, H., .....	36,910	.....	.....	.....	18,256	.....	R. Elwood and J. Barbydt.
208	Fennel, A. & Co., .....	41,079	22,070	55,114	20,303	.....	.....	E. Dorlon.
606, 609	Fisher, T. H. & Co., .....	35,205	26,609	46,481	23,411	19,238	14,818	J. E. Whipple.
330	Fennell, J. & Co., .....	.....	.....	.....	.....	.....	.....	Russell Sage and S. Norton.
175	Fonda, J., .....	.....	.....	.....	.....	.....	.....	Cornelius Gardiner.
49	Fisher, John, .....	.....	.....	.....	.....	.....	.....	Lawton Benson & C. B. Chase.
573	Fonda, P. H., .....	43,368	.....	.....	.....	.....	.....	Abram D. and Henry Fonda.
592	Gray, John J., .....	33,145	29,005	57,408	19,083	21,719	14,179	J. J. Schuyler and Charles Dieffendorf.
436	Gross, D. & Co., .....	.....	.....	.....	21,132	22,107	.....	Wm. Clark and S. Tingle.
64	Graham, G. & Co., .....	42,281	22,755	47,480	.....	.....	.....	John Palmer and Abram Christmas.
708	Gardiner, C. & Co., .....	.....	.....	.....	.....	.....	.....	John Putnam and Marquis Barnes.
687	Green, Z., .....	.....	.....	.....	24,153	25,427	16,804	Wm. Herkimer and M. Caldwell.
594	Gregg, E. D., .....	.....	.....	.....	21,093	20,036	11,896	W. S. Kelley.
225	Greene, F., .....	.....	.....	.....	.....	.....	12,653	J. N. Lake and H. Nolton.
266	Healy, J., .....	45,837	26,947	70,103	18,387	21,729	11,908	Leonard R. Sargeant.
289	Hague, A. & Co., .....	32,776	18,458	42,009	16,918	18,062	11,535	Henry Evans and John Peters.
306	Haight, S. R., .....	38,188	22,211	41,653	15,396	.....	.....	Wm. and Chas. Kingsbury.
635	Haggerty, J. & Co., .....	49,827	26,972	.....	.....	.....	.....	Oliver Johnson and John Sweeney.
168	Haverly, N. W., .....	.....	.....	.....	.....	.....	.....	H. Van Slyck and A. Boyce.
112	Hart, M., .....	.....	.....	.....	.....	25,570	.....	Samuel Hart and J. B. Stafford.
622	Johnson, Daniel, .....	.....	.....	.....	.....	.....	.....	J. S. M. Barbydt and N. J. Schermerhorn.
283	Johnson, Isaac & Co., .....	46,320	25,675	56,462	21,001	23,094	.....	S. Belding, jr. and James Morris.
357	Johnson, R. & Co., .....	.....	.....	.....	18,061	21,004	12,769	.....
408	Klyne, J. W. & Co., .....	44,501	.....	24,716	.....	.....	.....	J. W. Wilson and Jno. Stewart.

## PROPOSALS—(CONTINUED.)

Engineers' estimates, .....	No. of pro. position.	NUMBER OF SECTION.							NAMES OF GUARANTY.	
		60.	61.	62.	75.	78.	83.	84.		
Levi, B. & Co., .....	370	50,089	30,803	64,112	.....	.....	.....	.....	David Nelligar and James Cashin.	
Learned C. G. & Co., .....	34	.....	.....	.....	.....	.....	.....	.....	Edward Learned and B. H. Cheever.	
Livmore, J., .....	200	.....	.....	.....	.....	.....	.....	.....	David P. Corey.	
Luddington, M. E. & Co., .....	555	.....	.....	.....	.....	.....	.....	.....	C. J. De Graw and John De Wolf.	
Loomis, H. & Co., .....	695	40,373	97,863	169,895	20,763	57,010	17,466	4,589	E. Thomas and D. L. Farinham.	
Lynch, B. & Co., .....	230	Inform <sup>1</sup>	.....	.....	27,404	.....	.....	.....	J. A. Cross and G. Elsham.	
Moss, J. B., .....	789	23,831	59,399	.....	.....	.....	.....	.....	J. F. Russell.	
McCue, J. J., .....	546	46,374	25,724	64,475	.....	.....	.....	.....	D. D. Campbell and J. W. Schuyler.	
McGuire, P., .....	489	71,576	80,376	.....	.....	.....	.....	.....	F. S. Lampert and Thos. Sause.	
McGovern, T. & Co., .....	341	.....	.....	.....	.....	.....	.....	.....	Giles Ross and Andrew Myers.	
McQuade, P., .....	730	47,176	30,208	57,109	.....	24,797	.....	3,285	John McKnight and A. McQuade.	
McDonald, J. Jr., .....	187	52,399	23,599	47,865	.....	.....	.....	.....	D. Wright and J. B. Sturtevant.	
McDonald, J., .....	533	41,074	23,599	47,865	.....	.....	.....	.....	Thurlow Weed.	
Mills, T. G., .....	163	41,658	23,562	70,890	19,726	22,107	14,699	4,944	H. Brintnall and H. Swain.	
Morris, W. W., .....	618	60,540	35,145	80,706	.....	.....	.....	.....	Edward James.	
Moore, R. L., .....	53	36,821	21,085	43,682	19,934	22,238	14,031	4,028	G. S. Vincent and J. J. Grant.	
Morell, W. H., .....	228	51,054	33,103	73,025	.....	.....	.....	.....	W. W. Morris and T. A. Emmet, jr.	
Morgan, P. & Co., .....	371	39,788	24,823	58,453	18,639	22,741	15,569	2,723	Constant Cook.	
McDonald, A. P., .....	673, 674	55,740	31,343	65,361	24,252	25,885	16,846	5,139	Edward P. Cowles.	
McDonald, J. & Co., .....	346	.....	.....	.....	.....	.....	.....	.....	J. Stewart and J. McClumpha.	
Mallory, D. & Co., .....	692	.....	.....	.....	.....	.....	.....	.....	J. Sandford and J. Vischer.	
Mathews, C. & Co., .....	119	.....	.....	.....	.....	.....	.....	.....	A. Matthews and J. W. Teller.	
McNamara, H. & Co., .....	601	48,424	.....	62,276	.....	.....	.....	.....	James Brady and James Mahue.	
McPhartlin, D., .....	541	84,988	34,688	.....	53,714	62,839	36,448	5,180	P. Murphy.	
Mallory, D. G., .....	461	.....	.....	.....	.....	.....	.....	.....	Almarin Young and James Stewart.	
Masteron, P. & Co., .....	697	49,812	33,903	.....	.....	.....	.....	.....	S. Dougherty and Oliver Johnson.	
Nichols, J. H., .....	508, 516	58,233	31,209	68,696	23,776	26,825	18,197	5,363	John F. Rathbone.	
Northrup, H. B., .....	543	.....	.....	.....	28,241	31,828	21,039	4,277	L. H. Northrup and D. Doubleday.	
Phelps, W. & Co., .....	725	44,457	20,200	63,126	.....	.....	.....	.....	Wm. Parmelee and E. Corning.	
Pierce, H., .....	521	31,900	.....	41,969	16,633	.....	.....	.....	Thos. James and E. Messerscaux.	

NAMES OF GUARANTY.

NUMBER OF SECTION.

No. of pro.  
position.

NAMES OF PROPOSERS.

71	Palmer, David, .....	.....	.....	25,534	1b,362	4,282	Geo. Law and M. C. Storey.
332	Part hurst, T. & Co., .....	.....	.....	19,392	13,376	4,304	E. James and W. Caldwell.
713	Quackenbush, H. & Co., .....	.....	.....	21,759	35,109	.....	S. P. Lyman.
410	Quackenbush, J., .....	.....	.....	18,319	21,092	.....	J. Sinter and Harvey Hughes.
288,	Richardson P. & Co., .....	.....	.....	19,413	19,993	3,739	T. N. Dillingham and Geo. Strover.
490	Ransom, W. H., .....	69,708	.....	.....	.....	.....	James B. Taylor.
470	Russell, S. F., .....	.....	.....	.....	.....	.....	H. C. Goodwin and M. McQuade.
151	Reilly, J. & Co., .....	22,291	48,271	.....	.....	.....	James Brady.
78	Rose, J. R. & Co., .....	.....	18,766	23,669	17,163	2,504	M. L. Harris and J. S. Casler.
265	Roof, J. J. & Co., .....	33,902	37,625	14,882	11,316	.....	S. Voorhes and D. J. McMartin.
270	Rodgers, D., .....	36,926	46,710	.....	.....	.....	F. G. Wait and G. S. Green.
7	Reed, J. B. & Co., .....	.....	.....	.....	.....	.....	W. S. Lamport and N. S. Richards.
349	Rogers, P. & Co., .....	47,216	.....	.....	.....	.....	P. Remington and Chas. Gray.
283	Raback, J. A. & Co., .....	91,367	285,530	161,535	.....	.....	M. L. Harris and T. B. Mitchell.
654	Richards, T. M., .....	.....	24,367	24,118	15,362	4,282	Geo. Law and David Palmer.
503	Storey, M. C., .....	46,226	57,211	24,356	.....	.....	A. J. Yates and W. C. Wemple.
406	Swart, A. & Co., .....	58,610	28,199	71,965	19,896	5,351	Thomas James.
813	Savage, J. & Co., .....	.....	27,476	31,177	.....	.....	Benj. Frazee and C. S. Smith.
411	Smith, J. C. & Co., .....	.....	23,761	.....	.....	.....	J. and A. Groenbeck.
336	Sanders, J. & Co., .....	.....	.....	.....	.....	.....	J. Cady and Andrew Truax.
39	Swart, J. & Co., .....	.....	.....	.....	.....	3,457	Ed. Eldridge and Sam. Weed.
342	Storrs, H. E. & Co., .....	56,171	73,386	24,570	18,615	.....	C. Mallory and J. J. Schuyler.
597	Schuyler, J. & Co., .....	.....	76,189	.....	.....	2,569	E. M. Sanders and Robert Harper.
154	Sanders, U., .....	.....	.....	18,301	14,381	.....	C. Smith and David Lohan.
235	Smith, C. & Co., .....	46,096	.....	51,431	.....	.....	S. Belding, Jr. and S. Voorhes.
449	Shuler, W. S., .....	41,259	25,572	.....	.....	.....	James B. Taylor.
77	Shultz, A., .....	47,986	.....	.....	.....	.....	H. J. Raymond and F. H. Ruggles.
659	Swain, J. B. & Co., .....	24,827	.....	.....	.....	3,561	G. F. Van Vechten and W. B. Wemple.
494	Sarin, T. & Co., .....	34,829	.....	.....	.....	.....	Nicholas Schuyler.
162	Schuyler, A., .....	.....	17,827	17,598	11,758	.....	Wm. S. Shuler and Jsaao Jackson.
120	Sammons, S. & Co., .....	51,328	23,005	24,042	.....	.....	See lock prop.
145	Stimson, S. W. & Co., .....	36,622	58,943	21,978	.....	.....	A. B. Dickinson and T. M. Niven.
318	Smith, S. W. & Co., .....	58,113	31,840	106,807	.....	.....	S. Belding, Jr. and Alex. Sheldon.
273	Smith, Geo., .....	40,413	21,204	45,601	.....	.....	Abram Elwood.
350	Stewart, J., .....	38,382	.....	17,708	17,469	.....	Thomas Countyman.
311	Schuyler, N. N., .....	41,060	.....	19,617	20,073	.....	D. M. Richmond.
141	Schuyler, N., .....	45,465	25,035	34,856	27,434	4,693	H. M. Birch and Lewis Haupt.
625	Smith, J. P., .....	.....	.....	.....	26,451	4,298	B. H. Sage and J. B. Chollar.
5	Shell, John, .....	.....	.....	.....	23,672	4,174	Lewis Green and P. A. Starin.
599	St. John, E. H. & Co., .....	.....	.....	.....	17,293	.....	John Darroven and Solomon Bowen.
703	Shaul, Josiah, .....	.....	.....	.....	.....	.....	.....
703	Toble, Peter & Co., .....	.....	62,502	.....	.....	.....	.....



## PROPOSALS—(CONTINUED.)

Engineer's estimate,.....	LOCKS.						No. of proposi- tion.	NAMES OF PROPOSERS.
\$25,995	\$24,860	\$27,443	\$26,131	\$27,267	\$31,033			
NAMES OF GUARANTY.								
No. 2.	No. 24.	No. 32.	No. 34.	No. 38.	No. 39.			
167	27,542	27,681	\$24,726	\$25,714	\$29,200	A. Bell and Samuel Swain.		
517	35,232	36,361	29,629	32,215	37,016	J. Benton and S. Douglas.		
510	27,306	32,534	24,644	.....	.....	Constant Cook.		
700	31,977	29,825	.....	.....	.....	W. H. Roosevelt.		
668	30,896	28,125	26,614	27,242	30,724	J. Knickerbocker.		
110	.....	28,833	25,945	26,550	29,968	J. and B. Stafford.		
469	.....	26,070	26,142	32,934	36,899	W. Clark and S. Elwood.		
417	32,924	.....	23,934	.....	.....	David Uttley.		
214	.....	26,495	.....	28,388	31,530*	H. P. Alexander and W. J. Skinner.		
1	.....	.....	.....	27,087	30,166	W. Kimball and E. V. Sowers.		
556	31,368	32,410	27,364	26,452	29,426	Matthew S. Pitcher.		
714	23,662	29,713	28,781	26,703	31,932	Geo. S. Tarbell and W. G. Burrows.		
61	24,743	26,696	23,443	26,594	30,536	Thos. R. Horton and W. Clark.		
228	35,000	31,434	31,505	34,459	38,476	H. J. Campbell and Chas. L. Austin.		
48	41,969	.....	.....	.....	.....	James Pollock and Jas. N. Wells.		
721	33,099	.....	.....	.....	.....	C. S. Grinnell and Wm. Slocum.		
397	26,697	28,811	27,324	28,477	30,291	Lewis Birdsell.		
367	29,459	.....	.....	.....	.....	Patrick Rogers.		
365	.....	.....	.....	.....	.....	J. Marlett, D. P. Forrest and S. H. Johnson.		
475	27,452	.....	.....	.....	.....	R. H. Cushman and H. D. Ward.		
626	.....	29,071	26,713	.....	.....	Austin Myers and C. S. Bromley.		
209	.....	29,137	23,444	.....	.....	E. B. Smith and H. E. Storm.		
651	26,731	.....	.....	27,061	30,592	W. J. Skinner and H. P. Alexander.		
352	.....	27,745	24,440	24,831	27,697	Nicholas Schryler.		
116	.....	31,046	26,910	.....	.....	P. J. Wagner and J. W. Hamilton.		
281	.....	.....	.....	29,567	30,041	Geo. Rasbeck and Fred. Reese.		
132	.....	.....	.....	.....	28,507	C. Elwood, and G. B. Judd.		
444	27,965	26,762	24,236	24,663	27,889	J. E. Whipple.		
848	24,373	.....	.....	.....	.....	J. McClumpha and Almarin Young.		
193	24,844	27,321	24,868	26,431	27,687	J. S. T. Stranahan.		

# PROPOSALS—(CONTINUED.)

Engineer's estimates,.....	LOCKS.						No. of propo- sition.	NAMES OF PROPOSERS,	NAMES OF GUARANTY.
	No. 2.	No. 24.	No. 32.	No. 34.	No. 38.	No. 39.			
\$25,996	\$24,860	\$27,442	\$26,131	\$27,267	\$31,033				
Fraser, Benjamin,.....	638	.....	\$26,104	.....	.....	\$26,877		John O. Fraser and C. Vrooman.	
Filkins, Cornelius,.....	385	.....	24,329	\$23,637	\$25,036	29,137		Nicholas N. Schnyler.	
Hague, Andrew & Co.,.....	288	\$21,674	26,240	-18,523	20,612	23,170		Henry Evans and John Peters.	
Helmer, Joseph W.,.....	238	19,832	.....	.....	.....	.....		Nicholas Schnyler.	
Higgins, John,.....	644	26,877	.....	.....	.....	.....		Charles L. Austin.	
Haight, S. R.,.....	304	31,080	30,902	30,993	37,202	46,281		William and Charles Kingsbury.	
Haughton, Isaac & Co.,.....	291	25,026	26,583	20,794	24,386	28,083		S. Belding, Jr., and Jacob Morris.	
Jackson, Robert & Co.,.....	355	28,897	32,355	26,911	33,716	38,186		H. P. Alexander and George H. Feeter.	
Johnson, Robert & Co.,.....	355	.....	24,881	19,764	26,151	27,603		Arch. Dunlop and Thomas H. Clowes.	
Learned, E. & Co.,.....	48	31,091	31,376	26,815	28,573	31,949		R. W. Chubbick and E. T. Ballard.	
Lewis, Samuel,.....	585	24,722	.....	.....	.....	.....		D. J. McMartin and John Stewart.	
Logan, W. & Co.,.....	477	36,124	.....	.....	.....	.....		M. Schoonmaker and J. Clinton.	
Murray, Edward,.....	648	29,600	35,655	.....	.....	.....		Thurlow Weed.	
McDonald, James,.....	534	25,707	.....	.....	.....	.....		J. McKnight and A. McQuade.	
McQuade, Patrick,.....	522	32,327	28,445	28,517	27,773	28,580		D. Wright and Jno. B. Sturtevant.	
McDonald, John Jr.,.....	135	25,790	22,432	22,623	23,014	27,427		Homor Ramsdale and D. Moore.	
Mallory, James H.,.....	453	28,475	31,841	26,308	26,264	32,659		E. P. Cowles.	
McDonald, Angus P.,.....	672	28,002	33,325	27,668	27,268	30,771		Edward James.	
Morris, W. W. & Co.,.....	619	29,099	40,031	29,979	31,212	34,691		W. W. Morris and Thomas A. Emmett, jr.	
Myers, Austin & Co.,.....	560	24,814	29,747	25,894	26,479	29,460		Henry Swan and H. Brintnall.	
Morell, W. H.,.....	90	28,237	.....	.....	.....	.....		G. Ross and A. Myers.	
Mills, Theodore G. & Co.,.....	641	21,351	21,198	21,449	21,553	24,760		E. D. Gregg and Daniel Johnson.	
McGown, T. & Co.,.....	361	42,277	49,871	42,550	43,223	45,129		James Stewart and Almarin Young.	
McGue, J. J.,.....	681	23,627	.....	.....	.....	.....		John F. Rathbone.	
Mallory, David H.,.....	460	.....	460	24,146	.....	.....		Joseph Clinton and W. Davis.	
Nichols, John H.,.....	628	26,370	36,201	26,729	27,490	30,866		Isaac S. and Lucius Newton.	
Neone, Luke & Co.,.....	647	26,534	31,807	.....	.....	.....		Geo. Law and M. C. Storey.	
Newton, William & Co.,.....	82	25,373	26,377	.....	25,878	29,275		S. Voorhees and D. J. McMartin.	
Palmer, David,.....	73	23,041	26,377	25,223	27,047	30,037			
Rogers, David,.....	268	21,177	23,262	21,630	24,959	27,777			

Reynolds, Thomas & Co., .....	165	25,649	31,835	22,019	21,038	24,573	27,527	Edward Dodd.
Richardson, Phineas & Co., .....	296	25,372	28,365	25,262	19,366	24,899	27,877	Geo. Stover and T. N. Dillingham.
Rusbeck, J. M. & Co., .....	277	.....	.....	27,214	22,717	26,890	27,862	P. Remington and Chas. Gry.
Stewart, James, .....	272	25,124	23,783	25,468	21,804	24,898	27,975	S. Belding, Jr. and Alexander Sheldon.
Sturtevant, John A. & Co., .....	464	30,743	26,976	30,982	27,799	29,795	.....	John Sanford and D. Wright.
Savage, James & Co., .....	817	41,868	37,161	41,730	39,566	42,441	47,888	Thomas James.
Schuyler, Aaron, .....	161	17,862	16,183	.....	15,978	16,959	19,865	Nicholas Schuyler.
Storey, Miner C., .....	500	27,105	24,457	29,844	23,306	27,365	30,484	George Law and David Palmer.
Storck, H. E., .....	404	26,210	27,198	32,162	28,845	26,493	29,631	Ed. Eldridge and Sam. Weed.
Swart, Aaron & Co., .....	405	.....	27,154	.....	.....	.....	.....	A. J. Yates and J. Swart.
Shuler, W. S., .....	447	.....	24,528	.....	.....	.....	.....	Shuler Cady and George Yost.
Schermhorn, M. L. & Co., .....	207	.....	24,845	28,910	.....	.....	.....	W. R. Ford and R. J. Grant.
Stafford, Brown, .....	646	.....	.....	30,705	28,602	29,068	32,842	J. Stafford and P. D. Betticher.
Saunders, James & Co., .....	394	.....	.....	30,982	26,605	30,512	30,717	H. M. Birch and Nelson Rust.
Stimpson, Sam. W. & Co., .....	258	.....	.....	25,331	28,113	30,734	33,960	H. Caswell and F. P. Bellinger.
Schuyler, Nicholas, .....	394	.....	.....	25,146	23,170	29,400	31,828	Thomas Countryman.
Schuyler, Nicholas N., .....	321	.....	.....	23,418	20,928	26,556	28,880	Abraham Elwood.
Sage, A. G. & Co., .....	434	.....	.....	27,131	26,011	35,805	.....	J. B. Chollar and Benjamin H. Sage.
Sage, Ezekiah, .....	227	.....	.....	27,464	25,213	.....	30,737	John Sanford.
Smith, John C. & Co., .....	412	.....	.....	28,614	24,969	.....	.....	Benjamin Frazee and Selah Smith.
St. John, E. H. & Co., .....	435	.....	.....	.....	.....	.....	28,492	M. E. Luddington and A. G. Sage.
Taylor, E. & Co., .....	675	32,747	27,633	31,518	31,820	34,596	38,139	D. H. Woodruff and J. P. Brayton.
Tobie, Peter & Co., .....	704	.....	.....	23,130	21,225	27,871	.....	John Darrow and Sol. Bowen.
Usher, William & Co., .....	.....	.....	.....	.....	.....	27,019	32,433	H. Caswell and William J. Skinner.
Upton, John & Co., .....	16	33,750	.....	.....	.....	.....	.....	P. D. McNabb and Thomas Corwell.
Utley, David, .....	383	.....	.....	25,693	22,734	26,080	29,254	William H. Hill.
Van Debagart, N. & Co., .....	244	35,615	27,692	32,732	28,691	30,948	36,206	See Lock proposition.
Van Zile, Jesse, .....	38	32,180	27,795	33,318	28,171	28,427	31,364	Benjamin Marshall and John A. Griswold.
Van De Mark, John & Co., .....	684	26,066	22,986	.....	.....	.....	.....	S. K. Ford.
Van Der Karr, L. & Co., .....	70	34,087	33,499	38,144	33,508	34,069	38,492	T. Van Der Karr and R. Powers.
Vrooman, J. N., .....	649	.....	30,052	.....	.....	.....	.....	A. A. Van Voorst and William McCamus.
Vedder, H. U., .....	442	.....	25,527	.....	.....	.....	.....	A. M. and S. Y. Vedder and J. Cady.
Van Evers, E. K. & Co., .....	253	.....	.....	36,803	.....	.....	.....	A. N. Van Aletyne and S. Sammons.
Wright, William W., .....	707	31,428	.....	.....	.....	.....	.....	H. Randall and H. J. Hastings.
Wilcox, Charles, .....	389	33,612	30,262	.....	.....	.....	.....	J. B. Wilcox and G. Benedict.
Williams, George & Co., .....	335	.....	24,994	29,394	23,899	25,820	29,297	A. Hunt and J. O. H. Rockfellow.
Williams, W. H., .....	205	.....	25,772	22,403	21,166	21,565	24,423	Thomas Burch and S. M. Richmond.
Wiles, John L., .....	157	.....	.....	26,649	23,622	26,692	30,030	M. L. Harris and G. P. Van Aletyne.
Wells, A. H. & Co. (Wells withd'n), .....	520	35,359	.....	.....	.....	.....	.....	P. C. Van Wyck.
Wilson, Henry, .....	368	.....	.....	34,246	27,371	.....	.....	Alexander Eggleston and P. Rogers.
Ward, H. D. & Co., .....	668	.....	.....	29,202	26,668	.....	.....	W. Clark and R. H. Cushman.



## PROPOSALS—(CONTINUED.)

Engin estimates.....	AQUEDUCTS.				NAMES OF GUARRANTY.
	\$18,420	\$20,756	\$17,264	\$6,434	
NAMES OF PROPOSERS.	No. of propositions.	Printings.	Olatona.	Leashers.	Phillips.
Bell, J. P. & Co.,.....	488	21,976	26,814	21,171	6,149
Birchard, B. & Co.,.....	511	17,728	19,824	15,975	.....
Bradshaw, H. B.,.....	663	18,825	21,748	17,685	5,944
Bogart, D. & Co.,.....	468	.....	.....	17,781	.....
Berthold, J. S. M. & Co.,.....	39	16,792	17,157	14,274	5,033
Borden, Joseph and Co.,.....	422	14,374	16,122	14,990	.....
Borden, H. P. & Co.,.....	325	13,368	15,337	12,564	.....
Bellinger, F. A.,.....	463	.....	20,040	16,139	.....
Bradley, Benj.,.....	571	18,412	22,186	17,291	.....
Caldwell, J. W. & Co.,.....	616	19,898	26,265	21,272	.....
Cole, Enoch & Co.,.....	48	17,746	19,263	15,462	.....
Campbell, S. B. & Co.,.....	32	26,094	28,503	23,439	.....
Cummings, J. P. & T.,.....	45	20,887	24,857	20,013	.....
Cruiger, W. H. & Co.,.....	368	.....	20,430	17,052	.....
Clark, William & Co.,.....	42	18,839	19,408	16,175	.....
Cullen, James & Co.,.....	145	17,554	18,856	15,605	4,724
Dyckman, P. H.,.....	527	15,171	18,871	16,675	.....
Decker, J. H.,.....	24	.....	14,096	17,220	.....
Dunham, A. T. & Co.,.....	554	7,001	19,186	15,419	.....
Feltius, Cornelius,.....	189	14,965	16,556	14,647	4,025
Groat, Jacob & Co.,.....	431	18,146	19,888	17,615	6,645
Gray, John J.,.....	593	17,197	21,332	15,684	4,403
Gardiner, Cornelius & Co.,.....	709	18,412	22,063	18,319	.....
Haight, S. R.,.....	209	17,698	20,985	16,806	.....
Jackson, Isaac & Co.,.....	204	18,274	20,063	16,609	.....
McDonald James,.....	530	14,287	15,785	12,768	6,433
Morris, W. W. & Co.,.....	621	29,133	31,067	.....	.....
Morell, W. H.,.....	123	.....	24,556	20,041	.....
Mills, Theo. G. & Co.,.....	14	16,214	17,732	14,668	6,167
Palmer, David,.....	75	19,770	21,608	17,767	5,287

Reed, James B. & Co.,	8	16,406	17,418	14,487	6,315	W. G. Wait and S. G. Green.
Rogers, David,	269	15,527	17,463	13,968	5,066	S. Voorhees and D. J. McMartin.
Richardson, Phoenix & Co.,	802	18,704	20,843	16,831	4,879	George Strover and T. N. Dillingham.
Reilly John,	215	15,020	18,181	14,808		P. McGuire and E. J. Higgins.
Stewart, James,	271	15,093	19,443			S. Belding, Jr. and Alex. Sheldon.
Sturtevant, John A. & Co.,	131	23,494	23,605	23,475		John Sanford and D. Wright.
Savage, James & Co.,	814	12,554	15,082	12,560	4,083	Thomas James
Schuyler, Aaron,	160	19,595	21,908	17,943	5,208	Nicholas Schuyler.
Storey, Minor C.,	501	17,907	19,843	16,224	6,494	Geo. Law and David Palmer.
Storrs, H. E.,	373		19,258			Edward Eldridge and Samuel Weed.
Shuler, W. S.,	450		14,013	11,302		Shuler, Cady and George Yost.
Stafford, Brown,	645	12,853	14,013	11,302		J. Stafford and P. D. Betticher.
Stimpson, Saml. W. & Co.,	146	19,303	21,804	18,748	5,320	H. Caswell and F. P. Bellinger.
Smith, John C. & Co.,	65	18,621	23,407	17,519		Benjamin Frazee and Selah Smith.
Starlin, Thomas and Co.,	210	13,681	15,842	12,726		Z. Fonds and G. F. Van Vechten.
Smith, George,	317	18,591	19,806	16,452		A. B. Dickinson and T. McNiven.
Tobis, Peter & Co.,	706	15,697	13,337	10,800		John Darrow and Solomon Bowan.
Van De Bogart, N. & Co.,	246	16,135	17,757	14,346	4,368	[See look propositions.]
Vega Zille, Jesse,	37	24,119	23,748			Benjamin Marshall and John A. Griswold.
Voss, Der Karr, L. & Co.,	69	25,496	27,091	23,247	6,503	T. Van Der Kar and B. Powers.
Vrooman, J. N.,	548	18,745	20,556	17,106		A. A. Van Vorst and Wm. McCamus.
Vedder, H. U.,	441	15,362	16,837	14,180	4,324	A. M. and S. Y. Vedder and J. Cady.
Van Evers, E. K. & Co.,	251	16,219	23,901			A. N. Van Aelryne and B. Sammons.
Van Deusen, C. G.,	323	15,848		18,633		John Stafford.
Wiles, John J.,	113	14,161		16,812		M. L. Harris and G. P. Van Alstyne.
Wilson, Henry,	243	26,239	17,267	12,986		Alex. Eggleston and P. Rogers.
Ward, H. D. & Co.,	607	18,876	29,643	24,006		W. Clark and R. H. Cushman.
Yates, A. J.,	69	13,976	26,173	16,902		G. F. Van Vechten and Wm. B. Wemple.
			15,589			

\* The above amount is as exhibited on canvas sheet, but should be \$21,219. (Error in canvas.)

## PROPOSALS—(CONTINUED.)

Engineers' estimates,.....	\$4,918	\$4,918	\$3,256	\$14,533	\$8,553	NAMES OF GUARANTY.	
NAMES OF PROPOSERS.	No. of proposi- tion.	WASTE WEIRS.		No. of proposi- tion.	CULVERTS.		NAMES OF GUARANTY.
		On section 30.	On section 56.		On section 16 and 17.	On sections 30, 33, 34, 36 and 40.	
Anderson, R. G., .....	518	6,548	6,548	.....	12,120	7,081	J. McFarlan and J. G. Voorhees.
Ball, J. P. & Co., .....	.....	.....	.....	.....	3,310	10,078	J. Boughton and S. Douglass.
Richard, B. & Co., .....	.....	.....	.....	.....	.....	10,991	Constant Cook.
Barton, W. & Co., .....	.....	.....	.....	.....	2,387	6,712	S. E. Ford.
Betticher, P. D., .....	106	4,352	4,352	.....	10,560	6,439	J. and B. Stafford.
Bogart, D. & Co., .....	.....	.....	.....	.....	2,871	7,220	W. Clark and S. Elwood.
Bachydt, J. S. M. & Co., .....	27	5,428	5,202	.....	.....	.....	N. Bachydt and William Fuller.
Bigham, A. & Co., .....	.....	.....	.....	.....	2,624	11,020	P. V. Bartiss and J. Mallory.
Cole, Knoc & Co., .....	60	6,721	6,721	.....	3,754	.....	Thomas R. Horton and William Clark.
Clark, William & Co., .....	.....	.....	.....	.....	3,426	10,626	R. H. Cushney and H. D. Ward.
Colewell, Warren & Co., .....	.....	.....	.....	.....	2,390	.....	D. S. Manners and W. Taylor.
Dimnick, Levi & Co., .....	.....	.....	.....	.....	3,749	.....	E. B. Smith and H. E. Storma.
Fisher, Thomas H. & Co., .....	608	4,462	4,462	.....	2,807	7,851	J. E. Whipple.
Fennell, John & Co., .....	.....	.....	.....	.....	2,617	.....	Russell Sage and S. Norton.
Haight, S. R., .....	.....	.....	.....	.....	3,855	15,858	William and Charles Kingsbury.
Jackson, Isaac & Co., .....	.....	.....	.....	.....	3,447	9,496	S. Belding, jun. and Jacob Morris.
McDonald James, .....	532	4,325	4,243	.....	2,060	.....	Thurlow Weed.
Morris, W. W. & Co., .....	.....	.....	.....	.....	3,626	.....	Edward James.
Morell, W. H., .....	122	5,878	.....	.....	3,626	.....	W. W. Morris and Thomas A. Emmett, jun.
Noxon, James & Co., .....	.....	.....	.....	.....	89	.....	C. Bouton and R. R. Kennedy.
Palmer, David, .....	74	5,128	5,128	.....	3,373	9,339	George Law and M. C. Storey.
Storey, Minor C., .....	.....	.....	.....	.....	3,397	14,567	George Law and David Palmer.
Storrs, H. E., .....	.....	.....	.....	.....	3,005	14,535	Ed. Eldridge and Sam. Weed.
Swart, Aaron & Co., .....	402	4,801	.....	.....	2,939	13,137	A. J. Yates and J. Swart.
Stimpson, Samuel W. & Co., .....	138	6,254	6,254	.....	2,606	.....	H. Caswell and F. P. Bellinger.
Spencer, U., .....	.....	.....	.....	.....	.....	9,138	A. Bell and S. Swain.
Upton, John & Co., .....	.....	.....	.....	.....	3,489	.....	P. D. McNab and Thos. Cowell.
.....	.....	.....	.....	.....	3,840	.....	.....

Van De Regart, N. & Co.,	247	4,595	.....	245	3,592	12,712	10,210	(See lock prop.)
Van Der Karr, L. & Co.,	.....	.....	.....	002	.....	14,756	9,435	T. Van Der Karr and R. Powers.
Vedder, H. U.,	444	4,852	.....	443	.....	.....	8,008	A. M. and S. Y. Vedder and J. Cady.
Van Evers, E. K. & Co.,	.....	.....	.....	254	3,177	12,943	8,397	A. N. Van Alstyne and S. Sammons.
Wiles, John I.,	.....	.....	.....	264	.....	.....	7,029	M. L. Harris and G. P. Van Alstyne.
Wiles, D. & Co.,	699	.....	.....	.....	.....	.....	.....	J. H. Carwell.
Ward, H. D. & Co.,	.....	.....	.....	670	3,552	15,986	10,485	W. Clark and R. H. Oakney.
Yates, A. J.,	100	.....	.....	.....	.....	.....	.....	G. F. Van Vechten and Wm. B. Wemple.

# PROPOSALS—(CONTINUED.)

Engineer's estimate,	NAMES OF PROPOSERS.	No. of pre-position.	ROAD BRIDGE ADJUSTMENTS ON SECTIONS NOS—										NAMES OF GUARANTY.
			13	15	18	19	33	35	56	77	78 to 84 inclusive		
602	Bradshaw, H. E.,	602	\$1,746	\$1,746	\$1,746	\$1,746	\$1,746	\$1,746	.....	.....	.....	J. Knickerbocker.	
143	Beach, J. S. & Co.,	143	2,407	2,407	2,407	2,407	.....	.....	.....	.....	.....	H. Chapman and W. H. Beach.	
514, 515	Richard, B. & Co.,	514, 515	1,606	1,606	1,606	1,606	1,606	1,606	1,366	1,366	1,366	Constant Cook.	
497	Barker, A. B.,	497	1,727	1,727	1,644	1,644	1,585	1,585	.....	.....	.....	S. N. Payne and P. Barker.	
237	Ball, J. P. & Co.,	237	2,416	2,416	2,416	2,416	2,416	2,416	2,146	2,146	2,146	J. Borton and E. Dorian.	
107	Betticher, P. D.,	107	.....	.....	1,474	1,478	1,469	1,456	1,452	1,452	1,452	J. & B. Stafford.	
466	Bogert, D. & Co.,	466	.....	.....	.....	.....	.....	.....	.....	.....	1,643	W. Clark and S. Elwood.	
115	Boyer, J. Jr. & Co.,	115	.....	.....	.....	.....	.....	.....	.....	.....	1,488	W. J. Skinner and H. Caswell.	
437	Chapman, H.,	437	2,545	2,545	2,545	2,545	.....	.....	.....	.....	.....	E. H. Chapman and J. D. Beach.	
717	Candee, William & Co.,	717	1,736	1,736	1,736	1,736	1,736	1,736	1,603	1,330	1,330	D. Denison and S. Hart.	
473	Colwell, W. & Co.,	473	1,686	1,686	1,686	1,686	.....	.....	1,684	.....	.....	D. S. Manners and W. Taylor.	
43	Clark, W. & Co.,	43	2,013	2,013	.....	.....	1,900	1,900	.....	.....	.....	L. Spraker and H. D. Ward.	
57	Cole, E. & Co.,	57	1,561	.....	.....	.....	1,561	1,561	.....	.....	.....	T. R. Horton and W. Clark.	
125	Craig, John,	125	.....	.....	.....	.....	.....	.....	1,529	.....	.....	C. Gardner and P. Van Evers.	
96	Caldwell, J. W. & Co.,	96	.....	.....	.....	.....	.....	.....	1,684	.....	.....	G. S. Tarbell and W. G. Burrows.	
181	Dunn, Peter,	181	1,632	1,632	1,632	1,632	1,632	1,632	1,632	1,632	1,632	E. B. Powers and Wm. Mills.	
150	Dunnick, Levi & Co.,	150	1,743	1,743	1,743	1,743	.....	.....	.....	.....	.....	E. B. Smith and H. E. Storrs.	
409	Daly, E.,	409	1,827	1,823	.....	.....	.....	.....	.....	.....	.....	P. Rogers.	
324	Drykman, P. H.,	324	.....	.....	.....	.....	.....	.....	1,503	1,503	1,503	A. Myers and C. S. Bromley.	
456	Groat, Jacob & Co.,	456	1,356	1,356	1,356	1,356	1,356	1,356	1,356	1,356	1,356	J. E. Whipple.	
309	Haight, Storm R.,	309	2,200	2,200	2,200	2,200	1,958	1,958	.....	.....	.....	Charles and William Kingsbury.	
290	Jackson, Isaac & Co.,	290	.....	.....	.....	.....	.....	.....	1,661	1,661	.....	S. Belding, Jr. and Jacob Morris.	
354	Johnson, Robert & Co.,	354	.....	.....	.....	.....	.....	.....	.....	.....	1,357	A. Dunlop and T. H. Clowes.	
596	Learned, E. & Co.,	596	1,789	1,789	1,789	1,789	1,789	1,789	1,789	1,789	1,789	Edward James.	
617	Morris, W. W. & Co.,	617	2,242	2,242	2,242	2,242	2,242	2,242	.....	.....	.....	W. W. Morris and T. A. Emmett, Jr.	
121	Morell, W. H.,	121	2,091	2,091	2,091	2,091	1,984	1,984	.....	.....	.....	Thurlow Weed.	
229	McDonald, James,	229	1,825	1,825	1,825	1,825	1,825	1,825	1,870	1,870	1,870	R. G. and D. Anderson.	
634	McFarlan, James,	634	1,876	1,876	1,876	1,876	1,876	1,876	1,870	1,870	1,870	W. G. Caw and T. G. Younglove.	
668	Nash, John,	668	1,651	1,651	1,651	1,651	.....	.....	.....	.....	.....	.....	

153	Cochont, J. V. and Co.,	1,519	1,521	1,519	1,519	.....	.....	.....	.....	J. Roosevelt and A. Richards.
375	Prescott, A. H.,	1,601	1,601	1,601	1,601	1,601	1,601	1,601	1,502	1,502 C. Johnson and C. A. Griffith.
72	Palmer, David,	1,685	1,685	1,685	1,685	1,685	1,685	1,568	1,601	George Law and M. O. Storey.
301	Richardson, Phineas & Co.,	1,498	1,498	1,498	1,498	1,498	1,498	1,568	1,568	
166	Reynolds, N.,	1,498	1,498	1,498	1,498	1,498	1,498	1,568	1,568	Edward Dodd.
430	Rogers, David,	1,423	1,423	1,423	1,423	1,423	1,342	1,342	1,423	S. Belding, Jr. and Alexander Sheldon.
400	Storrs, H. E. & Co.,	1,442	1,442	1,423	1,423	1,423	1,423	1,423	1,423	E. Edridge and Sam. Weed.
60	Smith, John C.,	1,442	1,442	1,442	1,442	1,442	1,442	1,442	1,442	B. Frazer and B. Bradley.
351	Swart, Aaron & Co.,	1,564	1,564	1,564	1,564	1,387	94,889			A. J. Yates and W. C. Wemple.
683	Tarvin, Michael & Co.,	1,349	1,349							R. Morrison and F. S. Lamport.
136	Timmon, S. W. & Co.,						1,634	1,634		See look prep.
590	Sholl, John,	590	590	590	590	.....	.....	2,237		Z. Green and J. Sholl.
234	Smith, Charles & Co.,	1,601	1,601	1,601	1,601	1,601	1,601	1,601	1,474	Charles Smith and B. Logan.
504	(Story), Minor C.,	1,601	1,601	1,601	1,601	1,601	1,601	1,601	1,601	George Law and David Palmer.
18	Updon, John & Co.,	1,741	1,507	1,543	1,544	1,609	1,609	1,609		P. D. McNab and Thomas Corwell.
248	Van De Bogart, N. & Co.,	1,668	1,668	1,668	1,668	1,609	1,609	1,609	1,609	Thomas Van De Kart and Robert Powers.
68	Van Der Karr, L. & Co.,	1,546	1,546	1,546	1,546	1,546	1,546	1,546	1,546	A. N. Van Alstyne and S. Sammons.
252	Van Eyck, E. K. & Co.,	1,860	1,860	1,860	1,860	1,360	1,360	1,360	1,360	S. E. Ford.
130	Van Denburgh, J. & Co.,	1,455	1,455	1,455	1,455	1,455	1,455	1,455	1,455	A. M. and S. Y. Vedder, and J. Cadz.
445	Vedder, H. U.,					1,530	1,530	1,530	1,530	Thomas Burch and S. M. Richmond.
91	Williams, W. H. & Co.,	1,843	1,843	1,843	1,843	1,843	1,843	1,843	1,843	J. J. Yates and A. Freeman.
102	Yates, A. J.,						1,474	1,474		

## PROPOSALS—(CONTINUED.)

Engineer's estimate,	No. of pro- position.	FARM BRIDGE ADJUSTMENTS ON SECTIONS NOS—							NAMES OF GUARANTY.
		15.	16.	17.	26.	31.	32.	35.	
Bredshaw, A. B.,	662	\$1,297	\$1,297	\$1,297	\$1,297	\$1,297	\$1,297	\$1,297	J. Kneiberacker.
Beach, J. S. & Co.,	143	1,745	1,745	1,745	1,745	1,745	1,745	1,745	H. Chapman and W. H. Beach.
Birchard, B. & Co.,	517	1,165	1,165	1,165	1,165	1,165	1,165	1,165	Constant Cook.
Barker, A. B.,	497	1,312	1,312	1,312	1,312	1,312	1,312	1,312	S. N. Payne and P. Barker.
Bell, J. P. & Co.,	237	1,748	1,748	1,748	1,748	1,748	1,748	1,748	J. Borton and E. Dorlan.
Bethcher, P. D.,	107	1,893	1,893	1,893	1,893	1,893	1,893	1,893	J. and B. Stafford.
Chapman, H.,	487	1,251	1,251	1,251	1,251	1,251	1,251	1,251	E. H. Chapman and J. D. Beach.
Candee, William & Co.,	717	1,241	1,241	1,241	1,241	1,241	1,241	1,241	D. Denison and S. Hart.
Cottrill, W. & Co.,	473	1,461	1,461	1,461	1,461	1,461	1,461	1,461	D. S. Manners and W. Taylor.
Clark, W. & Co.,	43	1,433	1,433	1,433	1,433	1,433	1,433	1,433	L. Spraker and H. D. Ward.
Cole, E. & Co.,	57	1,182	1,182	1,182	1,182	1,182	1,182	1,182	T. R. Horton and W. Clark.
Dann, Peter,	181	1,292	1,292	1,292	1,292	1,292	1,292	1,292	R. Powers and William Mills.
Dimmick, Levi & Co.,	180	1,327	1,327	1,327	1,327	1,327	1,327	1,327	E. B. Smith and H. E. Storrs.
Daly, E.,	409	985	985	985	985	985	985	985	P. Rogers.
Groat, Jacob & Co.,	456	1,593	1,593	1,593	1,593	1,593	1,593	1,593	J. E. Whipple.
Haight, Storm R.,	309	1,290	1,290	1,290	1,290	1,290	1,290	1,290	Charles and William Kingsbury.
Jackson, Isaac & Co.,	290	1,619	1,619	1,619	1,619	1,619	1,619	1,619	S. Belding, Jr. and Jacob Morris.
Learned, E. & Co.,	596	1,507	1,507	1,507	1,507	1,507	1,507	1,507	A. Dunlop and T. H. Clowes.
Morris, W. W. & Co.,	617	1,507	1,507	1,507	1,507	1,507	1,507	1,507	Edward James.
Morrell, W. H.,	121	1,902	1,902	1,902	1,902	1,902	1,902	1,902	W. W. Morris and T. A. Emmett, Jr.
McDonald, James,	529	1,356	1,356	1,356	1,356	1,356	1,356	1,356	Thurlof Weed.
McLarian, James,	634	1,203	1,203	1,203	1,203	1,203	1,203	1,203	R. G. and D. Anderson.
Nash, John,	688	1,105	1,105	1,105	1,105	1,105	1,105	1,105	W. G. Caw and T. G. Younglove.
Outbont, J. V. & Co.,	153	1,156	1,156	1,156	1,156	1,156	1,156	1,156	J. Roosevelt and A. Richards.
Palmer, David,	72	1,216	1,216	1,216	1,216	1,216	1,216	1,216	George Law and M. C. Storey.
Richardson, Phineas & Co.,	301	1,098	1,098	1,098	1,098	1,098	1,098	1,098	Edward Dodd.
Leynolds, N.,	166	1,031	1,031	1,031	1,031	1,031	1,031	1,031	S. Belding, Jr. and Alexander Sheldon.
Rogers, David,	430	1,031	1,031	1,031	1,031	1,031	1,031	1,031	Ed. Edridge and Sam. Wood.
Storrs, H. E. & Co.,	400	1,031	1,031	1,031	1,031	1,031	1,031	1,031	

66	Smith, John C.	1,043	1,043	1,043	1,043	1,043	B. Frasee and B. Bradley.
351	Swart, Aaron & Co.	1,134	1,134	1,025	1,008	67,494	A. J. Yates and W. C. Wemple.
504	Story, Minor C.	1,156	1,156	1,156	1,156		Geo. Law and David Palmer.
18	Upson, John & Co.	1,093	1,117	1,094			P. D. McNab and Tom. Cowell.
248	Van De Bogart, N. & Co.	1,211	1,211	1,211	1,169	1,169	Thos. Van Derhart and Robert Powers.
68	Van Der Karr, L. & Co.	1,120	1,120	1,120	1,120	1,120	A. N. Van Alstyne and S. Sammons.
252	Van Evers, E. K. & Co.	983	983	983	983	983	S. E. Ford.
130	Van Demark, J. & Co.	1,048	1,048	1,048	1,048	1,048	A. M. and S. Y. Vedder and J. Gady.
445	Vedder, H. U.				1,107	1,107	Thos. Bursh and S. M. Richmond.
91	Williams, W. H. & Co.	973	973	973	973	973	



## PROPOSALS—(CONTINUED.)

Engineers' estimates,	NAMES OF PROPOSERS.	No. of propositions.	FARM BRIDGE ABUTMENTS ON SECTIONS Nos.										NAMES OF GUARANTY.
			36.	37.	44.	45.	Inclu. 46 to 56	57. B	58.	59.	60.		
	Borden, H. P. & Co.,	326	1,297	1,297	.....	1,297	.....	999	999	.....	J. Stafford and P. Whittemore.		
	Bradshaw, H. B.,	662	993	993	.....	993	.....	1,297	1,297	.....	J. Knickerbocker.		
	Burhard, B. & Co.,	517	1,203	1,203	.....	.....	.....	993	993	.....	Constant, Cook.		
	Barker, A. B.,	497	.....	.....	.....	.....	.....	.....	.....	.....	S. N. Payne and P. Barker.		
	Ball, J. P. & Co.,	237	1,077	1,053	.....	.....	.....	.....	.....	.....	J. Stafford and E. Dorlan.		
	Betticher, P. D.,	107	.....	.....	.....	.....	1,043	.....	.....	.....	J. Stafford.		
	Bogart, D. & Co.,	456	.....	.....	.....	.....	.....	1,274	1,274	.....	W. Clark and S. Elwood.		
	Cullen, James & Co.,	85	.....	.....	.....	.....	.....	1,333	1,333	.....	William Beard and Jas. Flied.		
	Caldwell, J. W. & Co.,	96	1,236	1,236	.....	1,236	.....	1,236	1,236	.....	G. S. Tarbell and W. G. Burrows.		
	Cole, Enos & Co.,	67	1,333	1,333	.....	.....	.....	1,005	1,005	.....	T. R. Horton and W. Clark.		
	Candee, William & Co.,	717	1,251	1,251	1,156	1,156	1,156	1,065	1,065	.....	D. Denison and S. Hart.		
	Clark, William & Co.,	43	1,352	1,352	.....	.....	.....	1,293	1,293	.....	L. Spraker and H. D. Ward.		
	Craig, John,	125	.....	.....	.....	.....	1,106	980	980	.....	C. Gardiner and P. Van Evers.		
	Dykman, P. H.,	324	.....	.....	.....	.....	1,089	1,089	1,089	.....	A. Myers and C. S. Bromley.		
	Eggleston James,	359	.....	.....	.....	.....	.....	1,578	1,462	1,462	A. Eggleston and P. Rogers.		
	Groat, Jacob & Co.,	456	985	985	985	985	985	985	985	.....	I. E. Whipple.		
	Haight, Storm R.,	309	1,418	1,418	.....	.....	.....	.....	1,418	1,418	Chas. and William Kingsbury.		
	Jackson, Isaac & Co.,	596	1,290	1,290	1,290	1,290	1,215	1,215	1,215	1,215	S. Belding, jun. and Jacob Morris.		
	Learned, E. & Co.,	121	1,433	1,438	.....	.....	.....	1,290	1,290	1,290	A. Dunlop and T. H. Clowes.		
	Morrell, W. H.,	634	1,356	1,356	1,356	1,356	1,344	1,344	1,344	1,344	W. W. Morris and T. A. Emmett, jun.		
	McFarlan, James,	529	1,046	1,046	.....	.....	.....	1,356	1,356	1,356	R. G. and D. Anderson.		
	McDonald, James,	617	1,619	1,619	1,619	1,619	1,002	1,002	1,002	1,002	Thurflow, Weed.		
	Morris, W. A. & Co.,	540	.....	.....	.....	.....	.....	1,619	1,619	1,619	Edward James.		
	McPharlin, P.,	72	1,156	1,156	1,156	1,156	1,111	1,111	1,111	.....	Geo. Law and M. C. Storey.		
	Palmer, I. W.,	301	1,132	1,137	.....	.....	.....	1,156	1,156	1,156	.....		
	Richardson, P. & Co.,	166	1,025	1,025	.....	.....	.....	1,132	1,132	1,132	.....		
	Reynold, J. & Co.,	430	971	971	971	971	971	971	971	971	Edward Dodd.		
	Rogers, J. W.,	186	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	S. Belding, jun. and Alexander Sheldon.		
	Story, Min. C.,	304	.....	.....	.....	.....	.....	1,156	1,156	1,156	George Law and David Palmer.		



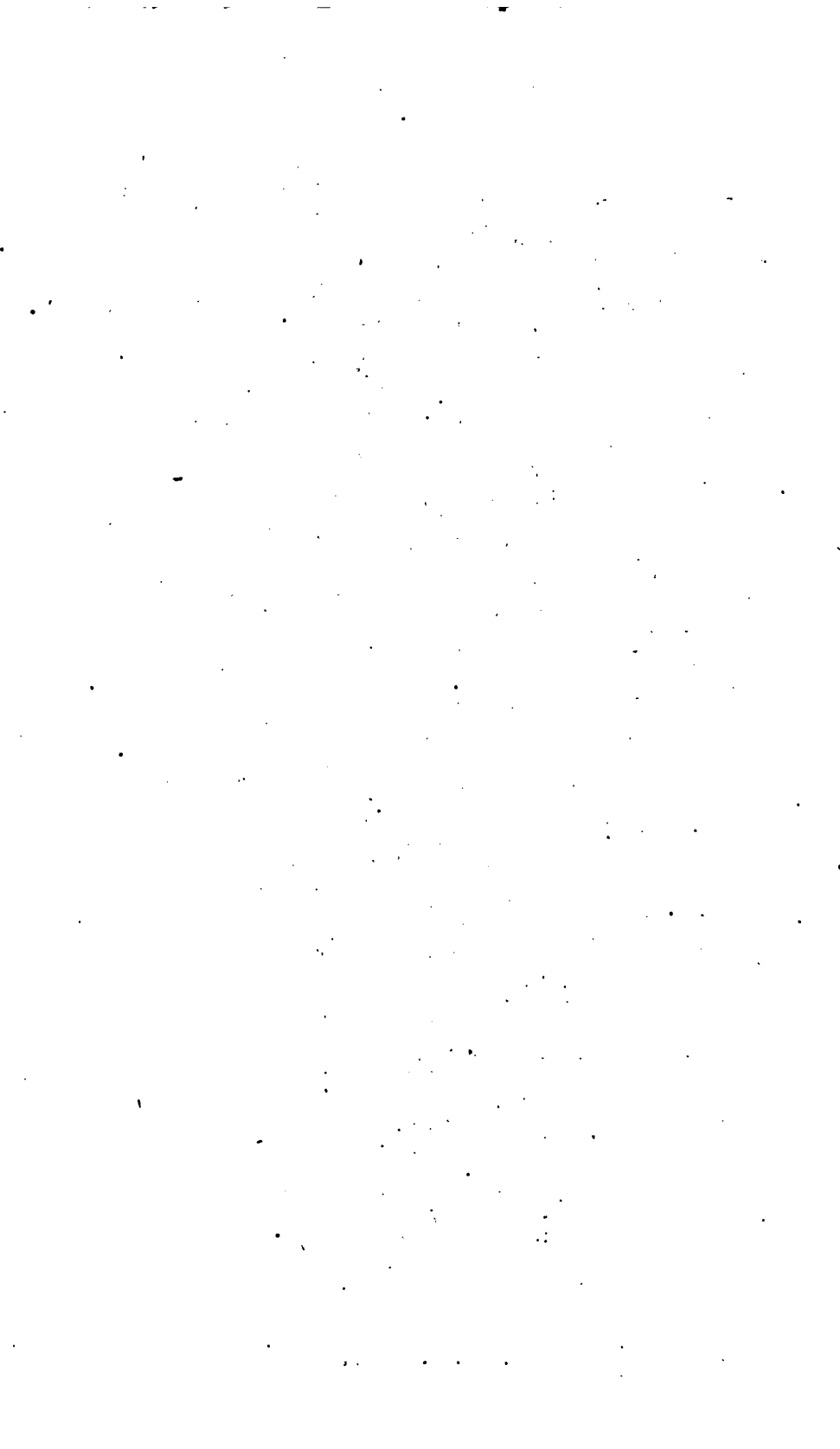
## PROPOSALS--(CONTINUED.)

Engineers' estimates, .....									
NAMES OF PROPOSERS.		No. of proposition.	FARM BRIDGE ABUTMENTS ON SECTION NOS.					No. of proposition.	Valve gates on locks, 2, 24, 32, 34, 36, 39
			61.	62.	Inch. 63 to 70	75.	76.	77.	78 to 84
Bordson, H. P. & Co., .....	326	1,297	993	986	993	993	993	993	993
Bradshaw, H. B., .....	662	993	993	993	993	993	993	993	993
Burhard B. & Co., .....	317	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236
Call, J. P. & Co., .....	237	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Chadwick, P. D., .....	107	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Conner, D. & Co., .....	466	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Cox, J. Jun. & Co., .....	115	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Cox, D. C. & Co., .....	104	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Cullen, James & Co., .....	85	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Caldwell, J. W. & Co., .....	96	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Cole, Enos & Co., .....	97	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Candler, William & Co., .....	717	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Cook, William & Co., .....	43	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Craig, John, .....	125	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dickman, F. H., .....	624	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dick, Nathan, .....	245	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dickson, James, .....	359	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dick, C. & Co., .....	653	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dick, Jacob & Co., .....	456	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dick, Storm B., .....	269	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dick, Robert & Co., .....	354	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dick, Isaac & Co., .....	290	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dick, E. & Co., .....	596	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dick, W. H., .....	121	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dick, James, .....	634	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dick, James, .....	637	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dick, W. W. & Co., .....	617	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dick, J. J., Jun., .....	73	1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183
Dick, .....		1,274	1,208	1,117	1,183	1,183	1,183	1,183	1,183

## NAMES OF GUARANTY.

J. Stafford & P. Whittemore.  
 J. Knickerbocker.  
 Constant Cook.  
 J. Bouton and E. Doran.  
 J. and B. Stafford.  
 W. Clark and S. Elwood.  
 W. J. Skinner and H. Caswell.  
 B. Elwood and L. Averill.  
 William Beard and James Fliel.  
 G. S. Tarbell and W. G. Burrows.  
 T. B. Horton and W. Clark.  
 D. Denison and S. Hart.  
 L. Sprague and H. D. Ward.  
 C. Gardner and P. Van Evera.  
 A. Myers and C. S. Bromley.  
 A. Hoffman.  
 A. Eggleston and P. Rogers.  
 P. J. Wagner and J. M. Hamilton.  
 W. E. Whipple.  
 Charles and William Kingsbury.  
 S. Belting, jun. and Jacob Morris.  
 A. Dunlop & T. H. Corcor.  
 W. W. Morris and T. A. Emmett, jun.  
 B. G. and D. Anderson.  
 Thomas Ward.  
 Edward James.  
 James Roy and Archd. Dunlap.  
 George Law and M. C. Storey.

[illegible]





No.	NAME OF MIDDLER.	Secs. 112, 117, 118, 119, 120.					NAME OF GUARANTY.
		112.	117.	118.	119.	120.	
	Engineers' Estimate, .....	\$21,500	\$21,000	\$17,000	\$19,000	\$15,500	
139	Graham, G., O. Brewer, & O. A. Clark, .....	.....	17,560	16,672	15,805	20,012	John Palmer, A. Christman.
112	Hart, Marshall, .....	29,565	20,581	18,720	17,866	18,841	S. Hart.
9	Kimball, Woodman, W. Gawn, Nath'l Kingsley, E. S. Bangs, ..	20,140	18,480	16,948	17,594	18,720	Earl, Bangs, Howland, R. G. Severy.
655	Lent, De Huron, .....	20,359	.....	.....	.....	.....	A. D. Barber.
559	Myers, Austin, & W. Johnson, ..	19,407	.....	.....	.....	.....	D. Mason, C. Ellwood.
623	Middler, C. C., N. Chase, J. Brint-nall, P. Middler, L. J. Middler.	.....	14,135	13,202	13,853	16,292	S. Hart.
15	Mills, T. G., .....	19,924	16,154	15,192	16,109	16,000	H. Brintnall
	Moss, J. B., .....	21,879	19,754	18,567	18,124	18,820	
615	Myers, W. E., .....	.....	27,999	.....	.....	.....	S. Brayton
371	Morgan, P. & Co., .....	.....	18,553	16,037	14,703	15,650	C. Crouse.
	Marcellus & Cady, .....	.....	.....	.....	16,805	.....	Claimed by old contract.
81	Newton, Wm. & Warren Newton, ..	28,886	28,839	24,697	23,342	24,433	I S Newton
134	Olney, J., & John Brill, .....	.....	20,867	19,625	18,816	19,961	D Brill.
353	Perkins, C. A., .....	32,994	.....	.....	.....	.....	J W Perkins. G. Wiles.
71	Palmer, David, .....	21,487	20,337	17,316	18,086	19,276	G Law.
211	Palmer, & J P Whipple, .....	21,755	20,467	20,858	.....	.....	
	Peck, Ethel, .....	.....	.....	17,315	16,096	.....	C Secs, J I Wiles.
400	Quackenbush, Isaac, .....	16,687	17,955	17,299	16,190	.....	J A Sinter, H Huyke.
574	Richman, T J., & F Morley, .....	21,593	21,228	19,866	18,013	18,848	M. Butterfield.

295 Richardson P & J & John Ray,...	19,409	18,701	17,310	17,746	16,078	G Strover & S A Dillingham.
788 Shippey J C .....	20,220	.....	.....	.....	.....	W C Champlin & J W Jones.
503 Story M C .....	21,159	20,337	17,318	18,086	19,226	G Law & D Palmer.
350 Schnyler N N .....	18,586	19,260	15,980	14,030	.....	A Ellwood.
563 Shippey N & C W White .....	17,265	16,289	15,182	14,544	15,189	J B Bradt & W Kimball.
162 Schnyler Aaron .....	14,659	16,135	15,607	15,350	15,925	N Schnyler.
11 Sage C H & A T Dunham .....	.....	22,875	21,407	20,745	21,645	L McChesney & R Ball.
476 Thompson Joseph .....	17,658	16,751	15,623	14,822	14,877	B Frazee & J O Frazee.
232 Vickerman C .....	19,324	.....	.....	.....	.....	Wm Johnson & John Golden.
243 Van De Bogart N, James E Van Horn & T Y Van De Bogart,...	21,037	20,692	18,999	18,523	.....	.....
Van De Bogart J Y .....	.....	.....	.....	.....	16,119	Claimed by old contract.
12 Van Vorst T B .....	23,552	22,088	21,356	26,838	26,098	.....
603 Van Der Karr .....	.....	20,995	19,050	18,890	19,935	T Van De Kar.
482 Van Horn C T E & Alva Ward .....	.....	23,989	23,762	24,724	25,754	H P Alexander & H Doolittle.
378 Wilcox Charles & Heesea Powell .....	19,370	.....	.....	.....	.....	J B Wilcox & G Benedict.
340 Wilson James .....	32,232	.....	.....	.....	.....	J Hamilton & R Wilson.
191 Woodworth Samuel .....	22,981	.....	.....	.....	.....	W W Woodworth & M D Hollister.
203 Williams H E .....	.....	14,252	14,251	14,078	13,821	G W Wright & R Wilcox.
201 Williams L & H Candee .....	.....	13,560	14,558	13,478	14,353	S Hart.



## ABSTRACT—(CONTINUED.)

S e c t i o n	NAMES OF BIDDERS.		Sec. 121.	Sec. 122.	Sec. 125.	Sec. 126.	NAMES OF GUARANTY.
	Engineers' estimate,		\$16,600	\$15,000	\$22,500	\$24,200	
397	Allen Seabury and Chauncey C. Joslin.				25,955	23,317	Marcellus & Treslon, Joseph Blair.
	Adams, H., B. Sharpsteen, & H. W. Adams		19,236	15,859	30,307	26,980	Bissell, Langford, Mudge & Comstock.
183	Babcock, Oliver, .....		18,542	17,508	36,195	28,239	S Woodworth.
418	Borden, Joseph, & W. H. Bennett, .....				27,882	24,735	D Utley,
184	Barker, William, & Cephas Barker, .....		17,486	15,006	25,581	23,091	G W Baker, G Stevens.
535	Buel, Orson, .....				29,759	27,943	
229	Bloss, A., Geo. B. Phelps, & O. Barnes.				26,310		John Vernon, William Barnes
198	Bennett, H. H., G. Kelsey, & E. Kelsey,				24,930	21,965	D W Stevens, W Norton.
698	Cronk, Hiram, .....		16,854	12,191	25,114	19,906	John Cronk, J B Bradt.
715	Candee, W. & Co., (See mechanical w'k.)		16,081	13,131	25,870	21,954	D Dennison, S Hart.
204	Crouse, Jacob, & Conrad Shoemaker, ..		15,376	13,401	23,338	21,446	H Rease, Levi Snell.
583	Coyle, Patrick H., & Joseph D. Gage.		12,178	9,712	19,355	17,295	W Palmer, M D Hollister.
691	Case, S, F M Lindleysee, & A M Farwell				29,000	24,546	E Farwell, C E Case.
124	Case, C G, & J W Baker, .....				29,590	25,568	I S T Stranahan.
262	DeGraw, Charles, J & Henry De Graw.		11,585	9,452	23,815	17,452	R C Kenyon.
194	Davison, John, .....				13,469	25,506	22,465 T J Richman, Joseph Welling
186	Delong, Hiram, & Alfred Earle, .....						P R Root.
178	Ely, Erastus, .....		16,530	13,497	31,016	25,159	H Brayton, D Utley.
188	Elwood, Hiram, .....				24,945		Reuben Ellwood, John Barhydt.
320	Elwood, Abraham, .....				27,890		N. Schuyler.
578	Estabrook, Cheesbro, & H H Fish, .....				30,640	28,855	C G Case, G W Baker.
609	Fisher, T H, & Jacob Groat, .....		17,770	14,549	26,385	25,906	J E Whipple.
219	Frank, Wm. J, & James H Frank, .....		17,220	15,077	28,800	23,352	Hiram Delong, T Countryman.

710	Finne, A & H C Loonway	13,509	11,721	.....	.....	E Doriou.
139	Graham, G, J Brewer & Ormond A Clark	18,845	15,472	34,385	27,824	John Palmer, A Christman.
112	Hart, Marshall	18,166	14,946	27,890	23,838	S Hart.
693	J Harrison, J Shields, Geo D Ransom & & H N Bill	.....	.....	29,000	25,592	W A Jacobs, E A Barber.
9	Kimball, W, W Gawne, Nath'l Kingsley & E S Bangs,	15,164	11,806	23,783	21,464	J D Earl, Bangs, Howland, & Savage.
	Kelsey, E N	.....	11,970	.....	.....	Claimed by old contract.
655	Lent, De Huron	.....	.....	22,875	31,610	A D Barber.
822	Loomis, L D, & Isaac W Brintnall,	.....	.....	31,285	23,673	J D Norton.
559	Myers, A & W Johnson,	.....	.....	27,548	23,742	D Mason & C Ellwood.
623	Middler, C C, N Chase, J. Brentnall, P Middler & L J Middler	16,454	13,433	23,644	20,904	S Hart.
15	Mills, T G	16,044	13,461	26,555	22,000	H Brintnall.
	Moss, J B	17,684	14,346	30,725	25,302	.....
371	Morgan, P & Co	16,903	13,680	25,920	23,173	C Crouse.
190	Matteson, Simon	.....	.....	26,110	24,135	A C Cromwell.
81	Newton, W & Warren Newton	23,413	18,872	38,250	32,452	I S Newton.
	Natross, J W	14,060	.....	.....	.....	Claimed by old contract.
134	Olney, J & John Brill	18,718	15,197	30,503	24,703	D Brill.
71	Palmer, David	17,611	14,463	28,460	23,563	G Law.
211	Palmer, ——— & J P Whipple	.....	.....	31,330	28,789	.....
782	Pringle, J & Patrick Gilboy	.....	.....	21,658	20,656	S Miller & J Duff.
400	Quackenbush Isaac	.....	.....	26,875	.....	J A Sinter & H Huyke.
574	Richmond, T J & F Mosley	17,888	14,874	26,290	21,723	M Butterfield.
595	Richardson, P, J Richardson & John Ray	15,541	12,639	24,345	23,481	G Strover & S A Dillingham.
282	Rasback, J A & H Eysaman	.....	.....	21,664	18,420	G Rasbeck & C Gray.

## ABSTRACT—(CONTINUED.)

SOLUTIONS OF M	NAMES OF BIDDERS.				Sec. 121.	Sec. 122.	Sec. 125.	Sec. 126.	NAMES OF GUARANTY.
	Engineers' estimate,.....				\$18,600	\$15,000	\$29,500	\$24,200	
397	Allen Seabury and Chauncey C. Joslin, Adams, H. B. Sharpsteen, & H. W. Adams	.....	.....	.....	19,236	15,859	30,307	26,980	Marcellus & Treslon, Joseph Blair.
183	Babcock, Oliver,.....	.....	.....	.....	18,542	17,508	36,195	28,239	Bissell, Langford, Mudge & Comstock.
418	Borden, Joseph, & W. H. Bennett,.....	.....	.....	.....	.....	.....	27,882	24,735	S Woodworth.
184	Barker, William, & Cephas Barker,.....	.....	.....	.....	17,486	15,006	25,581	23,091	D Utley,
535	Buel, Orson,.....	.....	.....	.....	.....	.....	29,759	27,943	G W Baker, G Stevens.
229	Bloss, A., Geo. B. Phelps, & O. Barnes,.....	.....	.....	.....	.....	.....	26,310	.....	John Vernon, William Barnes
198	Bennett, H. H., G. Kelsey, & E. Kelsey,.....	.....	.....	.....	.....	.....	24,930	21,966	D W Stevens, W Norton.
698	Cronk, Hiram,.....	.....	.....	.....	16,854	12,191	25,114	19,906	John Cronk, J B Bradt.
715	Candee, W. & Co., (See mechanical w'k.).....	.....	.....	.....	16,081	13,131	25,870	21,954	D Dennison, S Hart.
204	Crouse, Jacob, & Conrad Shoemaker,.....	.....	.....	.....	15,376	13,401	23,338	21,446	H Rease, Levi Snell.
583	Coyle, Patrick H., & Joseph D. Gage,.....	.....	.....	.....	12,178	9,712	19,355	17,295	W Palmer, M D Hollister.
691	Case, S, F M Lindleysee, & A M Farwell	.....	.....	.....	.....	.....	29,000	24,646	E Farwell, C E Case.
124	Case, C G, & J W Baker,.....	.....	.....	.....	.....	.....	29,590	25,568	I S T Stranahan.
262	DeGraw, Charles, J & Henry De Graw,.....	.....	.....	.....	11,585	9,452	23,815	17,452	R C Kenyon.
194	Davidson, John,.....	.....	.....	.....	.....	.....	13,469	25,506	T J Richman, Joseph Welling
186	Delong, Hiram, & Alfred Earle,.....	.....	.....	.....	.....	.....	31,016	25,159	P R Root.
178	Ely, Erastus,.....	.....	.....	.....	16,530	13,497	.....	.....	H Brayton, D Utley.
188	Elwood, Hiram,.....	.....	.....	.....	.....	.....	24,945	.....	Reuben Ellwood, John Barhydt.
320	Elwood, Abraham,.....	.....	.....	.....	.....	.....	27,890	.....	N. Schuyler.
578	Estabrook, Cheesbro, & H H Fish,.....	.....	.....	.....	.....	.....	30,640	28,855	C G Case, G W Baker.
609	Fisher, T H, & Jacob Groat,.....	.....	.....	.....	17,770	14,549	26,385	25,906	J E Whipple.
219	Frank, Wm. J, & James H Frank,.....	.....	.....	.....	17,220	15,077	28,800	23,352	Hiram Delong, T Countryman.

710 Finne, A & H C Loonway	13,509	11,721	.....	E Dorlou.
139 Graham, G, J Brewer & Ormond A Clark	18,845	15,472	34,385	27,824 John Palmer, A Christman.
112 Hart, Marshall	18,166	14,946	27,890	23,838 S Hart.
693 J Harrison, J Shields, Geo D Ransom & & H N Bill	.....	.....	29,000	25,592 W A Jacobs, E A Barber.
9 Kimball, W, W Gawne, Nathl Kingsley & E S Bangs,	15,164	11,806	23,783	21,464 J D Earl, Bangs, Howland, & Savage.
Kelsey, E N	.....	11,970	.....	..... Claimed by old contract.
655 Lent, De Huron	.....	.....	22,875	31,610 A D Barber.
822 Loomis, L D, & Isaac W Brintnall,	.....	.....	31,285	23,673 J D Norton.
559 Myers, A & W Johnson,	.....	.....	27,548	23,742 D Mason & C Ellwood.
623 Mittler, C C, N Chase, J. Brentnall, P Middler & L J Middler	16,454	13,433	23,644	20,904 S Hart.
15 Mills, T G	16,044	13,461	26,555	22,000 H Brintnall.
Moss, J B	17,684	14,346	30,725	25,302
371 Morgan, P & Co	16,903	13,680	25,920	23,173 C Crouse.
190 Matteson, Simon	.....	.....	26,110	24,135 A C Cromwell.
81 Newton, W & Warren Newton	23,413	18,872	38,250	32,452 I S Newton.
Natross, J W	14,060	.....	.....	..... Claimed by old contract.
134 Olney, J & John Brill	18,718	15,197	30,503	24,703 D Brill.
71 Palmer, David	17,611	14,463	28,460	23,563 G Law.
211 Palmer, ——— & J P Whipple	.....	.....	31,330	28,789
792 Pringle, J & Patrick Gilboy	.....	.....	21,658	20,656 S Miller & J Duff.
400 Quackenbush Isaac	.....	.....	26,875	..... J A Sinter & H Huyke.
574 Richmond, T J & F Mosley	17,888	14,874	26,290	21,723 M Butterfield.
595 Richardson, P, J Richardson & John Ray	15,541	12,639	24,345	23,481 G Strover & S A Dillingham.
282 Rasback, J A & H Eysaman	.....	.....	21,664	18,420 G Rasbeck & C Gray.

# ABSTRACT--(Continued.)

No. of bid or order	NAMES OF BIDDERS.		Sec. 121.	Sec. 122.	Sec. 123.	Sec. 126.	NAMES OF GUARANTY.
	Engineers' estimate,	.....	\$18,600.	\$15,000.	\$20,500.	\$21,200.	
279	Rasback, J M, F Rose & G Rasback.....	.....	.....	.....	21,664	18,420	P Remington.
788	Shippey, J C.....	.....	.....	.....	26,278	22,293	W C Champlin & J W Jones.
503	Story, M C.....	.....	17,657	14,563	28,340	23,588	G Law & D Palmer.
350	Schuyler, N N.....	.....	.....	.....	29,050	.....	A Ellwood.
563	Shippey, N & C W White.....	.....	14,469	11,851	25,045	.....	J B Bradt & W Kimball.
162	Schuyler, Aaron.....	.....	16,282	12,960	26,240	.....	N Schuyler.
11	Sage, C H & A T Dunham.....	.....	20,445	16,712	37,775	29,309	L McChesney & B Ball.
586	Stanbury, E.....	.....	.....	.....	26,730	21,810	A H Shults.
145	Stimson, S W, J D Mack & B U Caswell.....	.....	.....	.....	23,513	29,337	See lock proposal.
476	Thompson, Joseph.....	.....	14,651	11,199	23,727	18,741	B Frazee & J O Frazee.
425	Tupper, H N.....	.....	.....	.....	30,100	23,590	E N Kelsey & H Bennet.
250	Utley, Squire.....	.....	.....	.....	27,470	24,371	P V Kellogg.
243	Van De Bogart, N, J E Van Horn & J Y Van De Bogart.....	.....	.....	.....	.....	.....	.....
12	Van Vorst, T B.....	.....	17,232	14,065	27,950	24,917	.....
603	Van Der Kart.....	.....	25,448	20,461	38,245	33,986	T Van Der Kart.
432	Van Horn, C T E & Alva Ward.....	.....	18,745	15,205	33,305	26,300	T Van Der Kart.
378	Wilcox, Charles & Hosea Powell.....	.....	20,264	18,816	28,120	31,354	H P Alexander & H Doolittle.
191	Woodworth, Samuel.....	.....	.....	.....	26,350	21,517	J B Wilcox & G Benedict.
203	Williams, H E.....	.....	.....	.....	38,597	30,008	W W Woodworth & M D Hollister.
201	Williams, L & Horace Candee.....	.....	14,725	11,414	23,723	18,138	G W Wright & R Wilcox.
723	Wiles, J I.....	.....	13,763	11,532	20,760	18,807	S Hart.
		.....	.....	.....	24,570	17,424	G P Vanaalstine, M L Harris & Easton.



# ABSTRACT—(CONTINUED.)

No.	NAMES OF BIDDERS.		Sec. 127.	Sec. 128.	Sec. 129.	Sec. 130.	NAMES OF GUARANTY.
	Engineers estimate,	.....	\$27,900.	\$24,800	\$27,800	\$26,500	
397	Allen, Seabury & C C Joslin.....		27,360	25,471	25,062	23,945	Marcellus & Treslon, & Joseph Blair.
	Adams, Horace, Sharpsteen & Adams,		32,270	30,371	25,053	24,518	Bissell, Langford, Mudge & Comstock.
183	Babcock, Oliver,.....		30,675	.....	30,007	27,284	S Woodworth.
418	Borden, Joseph & Willard H Bennett ..		27,228	24,114	23,646	21,304	D Utley.
184	Barker, Wm & Cephas Barker .....		29,395	23,146	30,098	26,285	G W Barker & G Stevens.
428	Bates, T H.....		28,030	24,667	27,831	.....	A Rae & A D Barber.
535	Buel, Orson.....		25,043	29,080	34,352	32,171	
198	Bennett, H H, G Kelsey & E Kelsey, ..		33,655	22,705	22,282	20,352	D W Stevens & W Norton.
698	Cronk, Hiram.....		22,301	18,213	21,448	23,767	John Cronk & J B Bradt.
715	Candee, W & Co, (see mechanical work,)		23,755	20,559	22,862	23,987	D Dennison & S Hart.
204	Crouse, J & C Shoemaker.....		25,235	18,662	23,419	21,764	H Rease & Levi Snell.
691	Case, S F, M Lindleysee & A M Farwell		28,000	25,336	28,371	26,853	E Farwell & C E Can.
124	Case, C G & J W Baker,.....		29,690	25,552	28,722	27,927	I S T Stranahan.
262	De Graw, C J & Henry De Graw .....		17,425	15,453	17,420	16,765	R C Kenyon.
194	Davison, John .....		25,290	22,550	24,926	24,716	T I Richman & Joseph Welling.
186	Delong, Hiram & Alfred Earle.....		30,876	24,017	.....	.....	P R Root.
188	Elwood, Hiram.....		.....	.....	.....	19,110	Reuben Elwood & John Barthyd.
320	Elwood, Abraham.....		.....	.....	.....	19,328	N Schuyler.
578	Estabrook, T D, Tho's M Cheesbro & H H Fish.....		33,830	30,255	33,006	30,031	C G Case & G W Baker.
609	Fisher, T H & Jacob Groat.....		29,555	32,948	42,293	30,070	J E Whipple.
219	Frank, Wm J & James H Frank .....		26,767	23,332	26,830	24,415	Hiram Delong & T Countryman.

710	Finne, Alvinza & H C Loonway, .....	182, 180	23, 859	27, 294	23, 802	E Dorlon.
139	Graham, Geo, J Brewer & O A Clark, ..	32, 595	28, 186	33, 085	30, 391	John Palmer & A Christman.
112	Hart, Marshall, .....	24, 210	20, 678	23, 297	21, 356	S Hart.
591	Joslin, B B, .....	24, 874	21, 766	24, 874	21, 766	N Dorlon & W Sippell.
9	Kimball, W, W Gawne, N Kingsley & E S Bangs, .....	25, 152	18, 060	20, 517	20, 975	Earl, Bangs, Howland & Savery.
312	Kerney, A Hinch, .....	28, 720	47, 252	45, 633	.....	
655	Lent, De Huron, .....	47, 055	.....	32, 098	28, 731	A D Barber.
322	Loemis, L D & Isaac W Brintnall, .....	24, 665	22, 458	24, 106	24, 101	J D Norton.
380	Lannigan, James & Michael Murphy, ..	.....	.....	22, 578	16, 933	
559	Myers, Austin & W Johnson, .....	27, 520	23, 257	26, 964	26, 439	D Mason & C Ellwood.
623	Middler, C C, N Chase, J Brintnall, P Middler & L J Middler, .....	28, 370	23, 120	25, 750	20, 098	S Hart.
15	Mills, T G, .....	22, 260	20, 469	22, 150	22, 727	H Brintnall.
	Moss, J B, .....	30, 990	23, 746	24, 302	22, 547	
371	Morgan, P & Co, .....	27, 062	31, 938	27, 960	26, 192	C Crouse.
190	Matteson, Simon, .....	33, 800	26, 404	30, 043	29, 313	A C Cromwell.
81	Newton, William, & Warren Newton, ..	34, 665	30, 952	26, 773	24, 703	I S Newton.
134	Olney, J & John Brill, .....	27, 099	24, 758	27, 217	26, 600	D Brill.
71	Palmer, David, .....	25, 880	21, 899	25, 531	27, 221	G Law.
782	Pringle, James, & Patrick Gilboy, .....	.....	.....	20, 051	18, 886	S Miller & J. Duff.
400	Quackenbush, Isaac, .....	.....	.....	.....	18, 150	J A Sinter & H Huyke.
574	Richman, T J & Fred'k Morley, .....	24, 435	22, 893	24, 861	26, 066	M Butterfield.
295	Richardson, P, J Richardson & J Ray, ..	27, 370	24, 836	25, 867	22, 875	G Strover & S A Dillingham.
282	Rasback, J A, & Henry Eysenman, .....	24, 900	21, 390	29, 305	24, 036	G Rasback & C Gray.
279	Rasback, J M, F Rose & Geo. Rasback, ..	24, 880	19, 278	27, 498	22, 528	P Remington.
788	Shippy, J C, .....	24, 835	.....	.....	.....	W C Champlin & J Wyman Jones.



## ABSTRACT—(CONTINUED.)

No. of Bidder	NAMES OF BIDDERS.		Sec. 127.	Sec. 128.	Sec. 129.	Sec. 130.	NAMES OF GUARANTY.
	Engineers' estimate,	.....	\$27,900.	\$24,800	\$27,800	\$26,800	
503	Story, M. C. ....	.....	25,880	21,949	25,556	27,246	G Law & D Palmer.
340	Schnyler, N N. ....	.....	.....	.....	.....	20,838	A Ellwood.
162	Schuyler, Aaron .....	.....	.....	.....	21,970	17,890	N Schnyler.
11	Sage, C H & A T Dunham .....	.....	30,985	28,800	21,210	29,737	L McChesney & R Ball.
566	Stanbury, E. ....	.....	24,889	22,232	25,710	22,495	A H Shurts.
145	Stimson, S W, J D Mack & B U Caswell .....	.....	27,925	29,462	34,978	28,068	See lock proposal.
476	Thompson, Joseph .....	.....	42,759	22,305	20,179	19,383	B Frazee & J O Frazee.
425	Tupper, H N. ....	.....	28,010	24,415	24,480	23,245	E N Kelsey & H Bennett.
260	Utley, Squire .....	.....	30,290	26,317	30,188	27,566	P V Kellogg.
243	Van De Bogart, N, J E Van Horn, & J V Van De Bogart .....	.....	30,635	25,549	26,704	24,274	
693	Van De Kar .....	.....	25,680	23,740	26,320	26,905	T Van De Kar.
378	Wilcox, Charles & Moses Powell .....	.....	24,380	21,720	25,205	21,960	J B Wilcox & G Benedict.
191	Woodworth, Samuel .....	.....	41,845	30,463	38,551	31,626	W W Woodworth, & M D Holister.
203	Williams, H E. ....	.....	33,140	19,388	23,115	20,199	G W Wright & R Wilcox.
201	Williams, Isaac & Horace Candee, .....	.....	32,200	19,760	21,808	16,609	S Hart.
723	Wiles, J F. ....	.....	21,188	20,678	21,226	21,969	G P Vanalstine, Harris & Easton.
33	Walrath, J J, H Brown, J L Bebee, G E Downer, J W Bebee, J Harbottle & W H Walrath .....	.....	28,876	22,416	22,599	10,424	A P Downer & L Bebee.
567	White, C W & P H Griswold .....	.....	28,040	21,676	24,387	24,687	J B Bradt & W Kimball.
97	White, H, J F Huntley & C Frazee .....	.....	.....	.....	23,017	23,443	B Frazee, A Briggs & O Clark.

## ABSTRACT—(CONTINUED.)

No. of Job	NAMES OF BIDDERS.		Sec. 131.	Sec. 132.	Sec. 133.	Sec. 134.	NAMES OF GUARANTEE.
	Engineers' Estimate.		\$18,500	\$21,700	\$21,700	\$17,400	
397	Allen, Seabury & Chauncey C Joslin....		18,004	21,019	21,215	18,585	Marcellus & Treslon, Joseph Blair.
414	Adams, H, B Sharpsteen & H W Adams		.....	24,228	24,339	21,716	Bissell, Langford, Mudge & Comstock.
188	Babcock, Oliver .....		19,415	23,564	21,731	19,457	S Woodworth.
418	Borden, Joseph & Willard H Bennett ..		15,863	18,570	20,240	17,021	D Utley.
184	Barker, William & Cephas Barker .....		18,993	21,325	21,419	18,159	G W Baker, G Stevens.
585	Buel, Orson .....		23,141	25,921	24,819	20,282	
198	Bennet, H H, G Kelsey & E Kelsey .....		17,289	19,847	18,053	15,355	D W Stevens, W Norton.
698	Cronk, Hiram .....		16,952	22,550	22,982	16,712	John Cronk, J B Bradt.
715	Candee, W & Co (see mechanical work,)		17,152	19,775	19,968	17,394	D Dennison, S Hart.
204	Crouse, Jacob & Conrad Shoemaker .....		15,286	17,598	20,894	15,118	H Rease, Levi Snell.
691	Case, S F, M Lindleysee & A M Farwell		19,052	21,916	22,080	18,418	E Farwell, C E Can.
124	Case, C G & J W Baker .....		19,956	21,947	22,823	18,784	I S T Stranahan.
202	De Graw, O J & Henry De Graw .....		12,034	.....	.....	.....	R C Kenyon.
191	Davison, John .....		17,683	19,641	19,595	17,263	T I Richman, Joseph Welling.
186	Delong, Hiram & Alfred Earle .....		18,558	20,112	22,568	19,397	P R Root.
724	Davis, Naaman .....		.....	.....	22,025	18,046	P V Kellogg, A B Barber.
188	Elwood, Hiram .....		.....	.....	17,323	14,166	Reuben Ellwood, John Barhydt.
320	Elwood, Abraham .....		.....	.....	14,822	15,258	N Schuyler.
578	Estabrook, T D, T M Cheesebro & H H Fish .....		21,543	23,198	22,870	18,533	C G Case, G W Baker.
609	Fisher, T H & Jacob Groat .....		25,523	26,366	30,596	26,122	J E Whipple.
219	Frank, Wm J & James H Frank .....		18,217	20,937	21,128	19,150	Hiram Delong, T Countryman.



211	Palmer, & J P Whipple.	.....	.....	.....	21,460	
782	Pringle, James, & Patrick Gilboy.	.....	.....	17,663	15,558	S Miller, J Duff.
400	Quackenbush, Isaac,.....	.....	.....	18,360	14,663	J A Sinter, H Huyck.
574	Richman, Thos. J & F Morley.	19,600	22,566	22,027	19,417	M Butterfield.
295	Richardson, P, J Richardson, & J Ray.	17,948	20,903	20,041	15,724	G Strover, S A Dillingham.
611	Rae, Alexander,.....	18,734	21,911	22,025	18,046	T G Holley, P V Kellogg.
503	Story, M C,.....	17,679	20,271	21,394	17,291	G Law, D Palmer.
350	Schuyler, N N,.....	.....	.....	16,142	13,058	A Ellwood.
563	Shippy, Nathan, & Charles W White, ..	14,597	17,452	16,505	15,368	J B Bradt, W Kimball.
162	Schuyler, Aaron,.....	.....	.....	16,226	12,873	N Schuyler.
11	Sage, C H & A T Dunham,.....	22,039	25,602	25,576	23,248	L McChesney, R Ball.
145	Stimson, S W, J D Mack, B U Caswell.	19,242	25,913	28,051	21,685	See lock proposal.
476	Thompson, Joseph,.....	14,196	17,115	16,614	13,597	B Frazee, J O Frazee.
425	Tupper, H N,.....	18,360	21,525	21,523	18,730	E N Kelsey, H. Bennett.
243	Vandebogart, N, J E Van Horn, & J Y Vandebogart,.....	18,091	20,517	20,718	16,935	
603	Van De Karr,.....	19,960	22,865	23,725	20,360	T Van De Karr.
378	Wilcox, Charles, & Hosea Powell,.....	16,532	18,415	18,685	16,692	J B Wilcox, G Benedict.
191	Woodworth, Samuel,.....	21,755	25,931	25,925	22,632	W W Woodworth, M D Hollister.
203	Williams, H E,.....	14,443	16,185	16,021	11,752	G W Wright, R Wilcox.
201	Williams, L, & Horace Candee,.....	14,077	15,708	15,130	12,974	S Hart.
723	Wiles, J I,.....	16,866	19,338	19,682	16,424	G P Vanalstine, Harris & Easton.
33	Walrath, J J, H Brown, James L Bebee, Geo. E. Downer, John W Bebee, Jos. Harbottle, & W H Walrath,.....	15,523	17,506	18,405	14,978	A P Downer, L Bebee.

**EASTERN DIVISION:**

*Abstract of propositions for mechanical work, Western sub-division.*

No. of proposition.	NAMES OF BIDDERS.	LOCKS, MIGHT FEET LEFT.			Valve gates.	ROME FREDER.		NAMES OF GUARANTY.
						Dam across Mohawk.	Feeder & bulk-head.	
		No. 40.	No. 41.	No. 42.				
	Engineer's estimate.	\$27,500	\$26,700	\$27,000	\$1,650	\$8,500	\$3,500	
1	Butler, E.,	\$29,196	\$25,611	\$26,903	.....	.....	.....	Woodman Kimball, R. G. Savary.
214	Boyer, Joseph, & James Feeder,	32,860	.....	.....	.....	.....	.....	H. P. Alexander, W. J. Skinner.
417, 423	Borden, Joseph, & Willard H. Bennett,	24,161	24,501	25,826	.....	\$7,934	.....	D. Utley, J. Morris.
666	Brodshaw, H. B.,	31,992	31,862	31,637	.....	.....	.....	J. Knickerbocker.
236	Bellinger, F. A.,	32,062	32,912	32,912	.....	.....	.....	F. E. Spinner, M. Shoemaker, R. Ethridge.
95, 94	Cronwell, A. E.,	25,595	25,648	24,678	.....	8,098	.....	David Utley.
367	Croger, Wm. H. & Alexander Anderson,	29,593	29,175	29,626	.....	.....	.....	L. Birdsell.
556	Coleman, W.,	31,939	31,159	30,674	.....	.....	.....	M. S. Fitch.
481	Campbell, D.,	31,992	31,097	34,579	.....	.....	.....	Suffernus Selber, J. Edlok.
257	Caswell, B. W.,	32,640	.....	.....	.....	.....	.....	W. Usher, H. Caswell.
170	Devendorf, C.,	24,716	28,253	24,897	.....	.....	.....	R. Ethridge, D. B. Devendorf.
651	Doelittle, H. & Homer Caswell,	34,594	.....	.....	.....	.....	.....	H. J. Skinner, H. P. Alexander.
631	Dieffendorf, Jacob,	.....	29,789	30,925	.....	.....	.....	R. Ethridge, D. B. Devendorf.
132	Elwood, J. E. & E. T. Cleland,	26,801	26,220	28,420	.....	.....	.....	C. Elwood, G. B. Judd, M. McQuade.
281	Eyeman, Henry & James A. Rasback,	25,467	25,229	27,741	.....	.....	.....	G. Rasback, F. Reese.
352	Elwood, A.,	25,859	26,365	25,199	.....	.....	.....	N. Schuyler.
152	Farwell, Samuel & Samuel Zimmerman,	27,156	26,566	26,664	.....	.....	.....	J. S. T. Stranahan.
385	Filkins, Cornelius,	25,291	27,439	27,924	.....	.....	.....	X. N. Schuyler.
658	Frazer, B.,	25,018	24,637	24,245	.....	.....	.....	J. O. Frazer, C. Vroman, P. Oetrandor.
452, 453	Groat, Jacob & Thomas H. Fisher,	29,077	25,567	25,107	.....	7,334	\$3,531	J. E. Whipple.
288	Hague, Andrew & William Peters,	25,800	25,573	25,055	.....	.....	.....	H. P. Alexander, G. H. Feeter.
355	Johnson, Roberts & William Anderson,	24,387	24,657	25,257	.....	.....	.....	Jones & Fenton.
727	Jones, Samuel, Jas. Fenton & Wm. M. Roberts,	32,173	34,743	34,443	.....	.....	.....	H. L. Howland, R. G. Savary.
185	Kimball, Woodman, W. Gawn, N. Kingsley,	.....	.....	.....	.....	7,755	.....	M. Dunlop, T. Olwees.
48	Larned, Edward, Ohas. G., Geo. G. & Albert,	31,354	30,879	30,304	.....	.....	.....	A. D. Barber, S. Van Dresser.
656	Lent, De Huron,	.....	.....	.....	.....	10,870	.....	(See sections.)
199	Moss, J. E.,	39,989	38,261	38,646	.....	.....	.....	

560	Myers, Austin & William Johnson,	26,192	26,148	27,030	.....	.....	C. Elwood, D. Mason.
641	Mills, T. G.,	22,789	22,844	23,084	.....	.....	H. Swan, H. Brintall, R. Powers.
672	McDonald, A. F.,	32,890	32,822	31,990	.....	.....	E. P. Cowles.
694	Matteson, Jesse,	27,332	25,667	26,347	.....	8,040	3,403 S. Adams, E. Seymour.
82	Newton, William, Warren Newton,	37,250	37,116	35,066	.....	.....	J. S. Newton, L. Newton.
523	Nichols, J. H.,	.....	.....	.....	.....	.....	J. F. Rathbone.
815	Osgood, J. C. & Co.,	.....	.....	.....	.....	14,835	A. P. Downer.
576	Prescott, A. H. & Luther Chase,	.....	.....	.....	.....	.....	C. Johnson, C. A. Griffith, V. Owens, E. Green.
650	McGill, J. Jr.,	.....	.....	.....	.....	1,221	J. Roy, A. Dunlop.
680	Pray, R. H. & Gilbert C. Davidson,	.....	.....	.....	.....	1,554	C. B. Lansing, W. W. Frothingham.
832	Phelps, Solomon, Chester Ray,	.....	.....	.....	.....	.....	N. J. Beach, D. Utley.
105	Reynolds, Thomas, Nathaniel Reynolds, Sam'l Donaldson, Alexander Backley	.....	.....	.....	.....	.....	.....
269	Rogers, David,	24,704	23,470	25,957	.....	.....	Edward Dodd.
303	Richardson, Phineas, J. Richardson & J. Ray,	21,160	24,367	23,917	.....	.....	S. Voorhees, D. J. McMartin.
277	Rushack, J. M., Fred'k Reese, Geo. Rusbeck,	24,174	24,695	25,191	.....	7,069	G. Storer, T. M. Drillingham.
6	Shippey, J. C.,	27,309	25,942	26,272	.....	.....	P. Remington, C. Gray.
258	Stimson, S. W., J. D. Mack, B. W. Caswell,	28,748	27,873	27,448	.....	.....	W. C. Champlain, J. Wyman Jones, J. S. Ray.
372	Stuart, J.,	33,139	32,064	32,124	.....	.....	H. Caswell, F. P. Bellinger, H. Graves, J. A.
331	Schuyler, N. N.,	26,704	26,289	25,479	.....	.....	A. Belden, Jr., A. Shelden.
394	Schuyler, Nicholas,	26,331	25,673	26,503	.....	.....	A. Elwood.
435	St. John, E. H., & A. T. Dunham,	28,933	26,182	26,393	.....	.....	T. Countryman.
404	Storrs, H. E., Nels. Pellett, Alf. Purdy, E. B. Smith, W. C. White, E. J. Pratt, Ed. Shaw,	27,986	27,526	27,037	.....	.....	M. E. Luddington, J. B. Vanderwerkin.
564	Shippy, Nathan,	30,328	29,703	29,008	.....	.....	E. Eldridge, T. Weed.
500	Story, M. C.,	21,351	20,926	20,561	.....	.....	G. K. Brown, J. B. Bradt.
170	Sponenbergh, William,	30,143	29,450	29,211	.....	.....	G. Law, D. Palmer.
686	Seymour, John F., & G. W. Wood,	.....	26,161	.....	.....	1,513	J. Burgess, W. Hall.
439	Sweetman, Warren, & Co.,	.....	.....	.....	.....	1,566	H. Seymour, T. B. Clark.
426	Tupper, H. N.,	29,783	29,268	28,608	.....	.....	G. Kennedy, A. Peck, R. R. Kennedy.
117	Usher, William, James Feeter, & H. Doolittle,	24,634	.....	.....	.....	.....	E. N. Kelsey, H. Bennett.
333	Utley, David,	25,417	25,564	26,255	.....	.....	H. Caswell, W. J. Skinner.
35	Van Zile, Jesse,	32,354	32,510	32,921	.....	.....	W. H. Hill.
70	Van Der Karr, Leonard, & Patrick Lavin,	39,127	38,447	37,657	.....	.....	B. Marshall, J. A. Gidswold.
244	Van De Bogart, J. Y., J. Van Horne, J. Y. Van De Bogart,	33,802	33,679	33,136	.....	.....	T. Van Der Karr, R. Powers.
233	Viekerman, C.,	25,540	24,666	26,494	.....	.....	W. Johnson, J. Golden.
84	Van Dresser, Stephen,	.....	.....	.....	.....	.....	J. Stryker, B. J. Beach.
92	Williams, W. H., & Enoch Snell,	.....	.....	.....	.....	9,821	T. Burch, H. M. Burch, S. M. Richmond.
232	Wiles, J. I., & W. Casler,	28,886	28,947	27,682	.....	.....	G. P. Van Alstine, J. F. Easton.
192, 193	Woodworth, Samuel,	28,754	28,598	28,768	.....	10,956	W. W. Woodworth, M. D. Hollister.

## PROPOSALS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	LOOKS EIGHT FEET LIFT.			Valve Gates.	ROVE FEEDER.		NAMES OF GUARANTY.
		No. 40.	No. 41.	No. 42.		Dam across Mohawk.	Feeder and bulk head.	
	Engineers' estimate,.....	\$27,500	\$26,700	\$27,000	\$1,050	\$8,500	\$3,500	
339	Wilcox, Charles, & Hosea Powell, .....	33,503	27,035	32,413	.....	.....	.....	J. E. Wilcox, G. Benedict.
193	Woodworth, Samuel, .....	.....	23,457	26,372	.....	.....	.....	J. Pieter, C. A. Bronson.
171	Whittlesey, John, .....	.....	.....	.....	.....	8,963	3,147	L. R. Lyons.
212	Whipple, J. P., & William Christman, .....	.....	.....	.....	.....	8,937	.....	D. C. Bellis, J. Palmer.
101	Yates, Andrew J., .....	.....	.....	.....	.....	9,033	.....	S. Allen, C. C. Joslin.
507	Kason, J. M., & Arthur Lewis, .....	24,847	24,387	26,637	.....	.....	.....	Charles A. Wheaton.

## PROPOSALS—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	CULVERTS.										NAMES OF GUARANTY.
		Engineers' estimate.	Square stone on sec. III.	Composite on sec. III & 12.	Composite, 3 spaces 24x2 sec. 118 & 20.	Composite 2x2 section 126.	Rome arch section 127.	Composite section 128.	Stone arch section 129.			
420, 421 196, 197	Borden, Joseph, Willard Bennett, Bennett, H. H., Grove Kelsey, E. H. N. Kelsey.	.....	1,354	1,764	.....	.....	.....	.....	.....	D. Utley, J. Morris.		
275	Farwell, Samuel.	.....	.....	.....	.....	.....	.....	.....	.....	.....		
605, 608	Fisher, T. H. & Jacob Grout.	.....	1,330	1,810	2,368	830	2,512	733	5,781	D. W. C. Stephens, W. Norton, A. C. Shades.		
657	Lent, De Huron.	.....	1,511	1,885	2,656	978	2,077	761	4,548	J. E. Whipple.		
782, 781	Pringle, James & Patrick Gilboy.	.....	.....	.....	.....	.....	2,396	.....	5,798	A. D. Barber, S. Van Drosser.		
440, 267	Stuppy, J. C.	.....	.....	.....	.....	.....	.....	.....	5,758	S. Miller, J. Duff.		
201, 188, 136	Stimpson, S. W., Josiah D. Mack, Bloomfield U. Caswell.	.....	1,482	1,763	.....	.....	.....	.....	.....	W. C. Champlin, J. Wyman Jones, J. S. Ray.		
602, 504	Storey, M. C.	.....	.....	1,961	2,685	1,186	3,026	930	6,508	H. Caswell, Bellinger, Graves, Laffin, and Sister.		
588, 587	Stansbury, E.	.....	1,584	1,983	.....	1,162	.....	.....	6,981	G. Law, D. Palmer.		
404	Tupper, H. N.	.....	.....	.....	.....	955	3,188	825	7,395	A. H. Shultz.		
602, 68	Van Der Karr, Leonard, & Park, Lavin.	.....	.....	.....	.....	.....	.....	.....	6,096	E. N. Kelsey, H. Bennett.		
247, 248	Van De Bogart, N., James E. Van Horn, J. Y. Van De Bogart.	.....	.....	.....	3,023	1,076	2,837	890	6,746	T. Van Der Karr, R. Powers.		
462	Van Vort, J. B.	.....	1,854	2,526	3,045	1,249	3,495	1,160	5,946	P. Potter, H. C. Van Vort.		
638	Wiles, David, G. P. Van Alstine, & Truman W. Richards.	.....	2,297	2,729	.....	.....	.....	.....	.....	.....		
213	Whipple, J. P. & William Christman.	.....	1,392	1,867	2,470	1,052	2,653	872	6,017	M. L. Hardie, J. H. Raster, J. I. Wiles.		
		.....	.....	1,957	1,957	804	2,164	.....	5,021	J. Palmer, D. O. Ralls.		



## PROPOSALS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	LOOKS EIGHT FEET LIFT.			Value of bid.	ROYE FEEDER.		NAMES OF GUARANTY.
		No. 40.	No. 41.	No. 42.		Dam across Mohawk head.	Feeder and bulk head.	
	Engineers' estimate,.....	\$27,500	\$26,700	\$27,000	\$1,650	\$8,500	\$3,500	
389	Wilcox, Charles, & Hoses Powell,.....	33,593	27,038	32,413				J. B. Wilcox, G. Benedict.
193	Woodworth, Samuel,.....		23,457	26,572				J. Pierce, C. A. Bronson.
171	Whittlesey, John,.....						3,147	L. R. Lyons.
213	Whipple, J. P., & William Christman,.....					8,987		D. C. Badis, J. Palmer.
101	Yates, Andrew J.,.....					9,053		E. Allen, C. C. Joslin.
507	Kasson, J. M., & Arthur Lewis,.....	24,847	24,987	26,537				Charles A. Wheaton.

## PROPOSALS—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	CULVERTS.								NAMES OF GUARANTY.	
		Engineers' estimate.	Square stone on rec. III.	Composite on sec. III & 12.	Composite, 3 spaces 24x2, sec. 118 & 20.	Composite 2x2, section 126.	Stone arch 4 feet chord, section 127.	Composite 3x2, section 128.	Stone arch 12 feet chord, section 129.		
420, 421 196, 197	Borden, Joseph, Willard Bennett, .....	.....	1,380	\$1,900	\$2,360	\$1,000	\$2,210	\$660	\$5,200	D. Utley, J. Morris.	
	Bennett, H. H., Grove Kelley, E. H. N. Kelley .....	.....	1,354	1,764	.....	.....	.....	.....	.....		
275	Farwell, Samuel, .....	.....	.....	.....	.....	.....	2,276	.....	.....		
605, 608	Fisher, T. H. & Jacob Grout, .....	.....	1,330	1,310	2,368	905	2,512	733	5,962		D. W. C. Stephens, W. Norton, A. C. Shaden.
657	Lent, De Huron, .....	.....	1,530	1,310	2,368	905	2,077	701	5,781		J. E. T. Stranahan.
782, 781	Pringle, James & Patrick Gilboy, .....	.....	1,511	1,885	2,656	978	2,396	.....	4,548		J. E. Whipple.
440, 267	Shippy, J. C., .....	.....	.....	.....	.....	.....	.....	.....	5,798		A. D. Barber, S. Van Drossar.
201, 188, 136	Stimppe, S. W., Josiah D. Mack, Bloomfield U. Caswell, .....	.....	1,482	1,763	.....	.....	.....	.....	5,758		S. Miller, J. Duff.
502, 504	Storey, M. O., .....	.....	1,584	1,961	2,685	1,186	3,026	930	6,508		H. Caswell, Bellinger, Graves, Laffin, and Sinter.
588, 587	Stansbury, E., .....	.....	1,584	1,983	.....	1,162	.....	.....	6,081		G. Law, D. Palmer.
602, 247,	Tupper, H. N., .....	.....	.....	.....	.....	955	3,188	825	7,395		A. H. Shultz.
	Van Der Karr, Leonard, & Patk. Lavin, .....	.....	.....	.....	.....	.....	.....	.....	6,096		E. N. Kelsey, H. Bennett.
	Van De Bogart, N., James E. Van Horn, J. Y. Van De Bogart, .....	.....	.....	.....	3,023	1,076	2,837	890	6,746		T. Van Der Karr, R. Powers.
462	Van Vort, J. B., .....	.....	1,854	2,526	3,045	1,249	3,495	1,150	5,946		P. Potter, H. C. Van Vort.
638	Wiles, David, G. P. Van Alstine, & Truman W. Richards, .....	.....	2,297	2,723	.....	.....	.....	.....	.....		
213	Whipple, J. P. & William Christman, .....	.....	1,392	1,867	2,470	1,052	2,653	872	6,017		M. L. Harris, J. H. Raster, J. I. Wiles.
		.....	.....	1,957	1,957	804	2,164	.....	5,021		J. Palmer, D. O. Ballin.

## PROPOSALS—(CONTINUED.)

No. of Proposition.	NAMES OF BIDDERS.	CULVERTS.				WASTE WEIRS.			NAMES OF GUARANTY.
		Composite, section 130.	3 composite, 2x2, section 130.	3 composite, 2x2, sec. 131 & 32.	2 composite, 3 spaces 24x2, sec. 133 & 34.	Section 120.	Section 127.	Section 134.	
	Engineers' estimate, .....	\$2,210	\$1,000	\$2,520	\$2,360	\$3,750	\$3,750	\$3,750	
196,	Benjamin, H. H., Grove, Kelsey, E. N. Kelsey,	.....	.....	.....	2,264	5,564	5,564	5,564	D. W. C. Stephens, W. Norton, A. C. Staden.
561,	Ball, J. P. & Wm. M. Hill, .....	.....	.....	.....	.....	.....	.....	.....	J. Bouton, E. Dorion.
725	Davis, Nathan, .....	.....	.....	.....	.....	.....	.....	.....	A. D. Barber, P. V. Kellogg.
276	Farwell, Samuel, .....	.....	.....	.....	.....	.....	.....	.....	J. S. T. Stranahan.
5184	Frazee, B., .....	2,412	890	2,493	2,364	.....	.....	.....	5,791 J. O. Frazee, C. Vrooman, P. Ostrander.
605,	Fisher, T. H. & Jacob Great, .....	.....	.....	.....	.....	.....	.....	.....	J. E. Whipple.
624,	Kimball, Weedman, W. Gawn, N. Kingsley,	1,992	904	2,354	2,368	3,741	3,741	3,741	W. L. Howland, R. G. Savary.
	Ely T. Bangs, .....	.....	.....	.....	.....	.....	.....	.....	A. D. Barber, S. Van Dresser.
637	Lent, De Huron, .....	.....	843	2,828	2,775	.....	.....	.....	T. G. Holley, P. V. Kellogg.
612,	Rae, Alexander, .....	.....	.....	.....	.....	.....	.....	.....	H. Caswell, Bellinger, Graves, Laffin and Sinter.
261,	Stimson, S. W., Josiah D. Mack, Bloomfield,	.....	.....	.....	.....	.....	.....	.....	G. Law, D. Palmer.
186	U. Caswell, .....	.....	.....	.....	.....	.....	.....	.....	A. H. Shultz.
502,	Story, M. C., .....	2,841	1,043	2,936	2,965	4,423	4,423	3,943	T. Van De Karr, R. Powers.
588,	Stansbury, E., .....	2,570	866	2,852	2,671	4,129	4,104	4,079	.....
602,	Van Der Karr, Leonard & Patrick Levin, .....	3,122	955	.....	.....	.....	.....	.....	.....
47,	Van De Bogaert, N., James E. Van Horn, J.	2,727	1,076	3,040	3,023	.....	.....	.....	.....
	Y. Van De Bogaert, .....	.....	.....	.....	.....	.....	.....	.....	.....
632,	Van Alstyne, G. P., David Wiles & Truman	2,726	1,133	2,991	3,001	3,822	3,837	3,837	.....
	W. Richards, .....	.....	.....	.....	.....	.....	.....	.....	.....
633	Wiles, David, G. P. Van Alstyne & Truman	.....	.....	.....	.....	4,280	4,280	4,280	M. L. Harris, J. H. Raster, J. I. Wiles.
	W. Richards, .....	2,443	962	2,478	2,430	.....	.....	.....	M. L. Harris, J. H. Raster, J. I. Wiles.
218	Whipple, J. P. & William Chikman, .....	2,143	834	2,238	2,356	.....	.....	.....	J. Palmer, D. C. Bels.

PROPOSALS—(CONTINUED.)

No of Proposition.	NAMES OF BIDDERS.	BRIDGE ADJUSTMENTS.						NAMES OF GUARANTY.
		Between Utica and Frankford.	Road sections 111 & 112.	Oriskany to Stanwix.	Home to New London.	Road bridge at New London.	New London to Hightstown.	
	Engineers' estimate.	\$13,670	\$4,950	\$8,660	\$7,220	\$2,300	\$4,060	
116	Boyer, Jos., Wm. Usher, Jas. Foster, H. Doeltzle.	15,105						H. P. Alexander, W. J. Skinner.
420,	Borden, Joseph, Willard, Bennett.	12,978	5,110	9,125				D. Utley, J. Morris.
561,	Eadi, J. P. & Wm. M. Hill.	22,680	8,587	15,435	10,837	3,895	5,406	J. Bouton, E. DeLon.
	379 Campbell, Daniel.	14,213	5,408					Sufferus Seiber, J. Edick.
719	Candee, William, P. R. Reed, B. Ashly, H. D. Dennison, Joseph A. Seoville, Jason Candy.	13,349	5,180	9,245	6,486	2,256	3,231	D. Denison, S. Hart.
285	Dunbar, E. S.	13,376	5,174	9,239	6,484	2,239	3,230	A. W. Barnes, A. Rae.
195	Davidson, John.	16,425	4,652	8,473	6,753			T. J. Richman, J. Welling.
177	Ely, Erasmus.		5,740	10,351	7,174	2,465	3,739	H. Brayton, D. Utley, E. S. Brayton.
455	Groat, Jacob & Thos. H. Fisher.		7,934	6,170	2,058		2,931	J. E. Whipple.
287	Hague, Andrew, & Wm. Peters.	13,647	5,112	9,123	6,402	2,257	3,194	H. Evans, J. Peters.
624,	407 Kimball, Woodman, Wm. Gawn, Nathaniel Kingsley, Ely T. Bangs.		5,954	10,413	7,222	2,426	3,424	W. L. Howland, R. G. Savory.
	352 Lannigan, James & Michael Murphy.					3,112	4,972	J. Lannigan, M. Murphy.
558	Myers, Austin & William Johnson.	12,753	4,902	8,826	6,651	2,290	3,310	C. Elwood, D. Mason.
634	McFarland, James.	16,162	6,090	10,924	7,683	2,656	3,929	R. S. Anderson, D. Anderson.
762,	781 Pringle, James & Patrick Gilbey.		6,095	10,535	6,543	2,305	3,257	S. Miller, J. Duff.
	328 Peak Ithiel.	13,914	4,857	8,745				J. I. Wiles, C. Seac.
	72 Palmer, David.	13,894	5,241	9,389	6,594	2,293	3,286	M. C. Story, G. Law.
300	Richardson, Phineas, John Richardson & James Ray.	13,380	5,102	9,194	6,776	2,313	3,351	G. Sirover, T. N. Dillingham.
440,	257 Shippy, J. C.	18,113	5,201					W. C. Champlin, J. Wyman Jones, J. S. Ray.
261, 136,	Stinson, S. W., Josiah D. Mack, Bloomfield U. Caswell.		6,073	11,051	7,751	2,920	4,088	H. Caswell, F. P. Bellinger, Graves, Laffin and Suiter.

## PROPOSALS—(CONTINUED.)

No. of Proposition.	NAMES OF BIDDERS.	BRIDGE ABUTMENTS.						NAMES OF GUARANTY.
		Between Utica and Frankford.	Road bridge on sections III & III.	(Oriskany to Stanwix.	Rome to New London.	Road bridge at New London.	New London to Higgins.	
	Engineers' estimate,.....	\$13,470	\$4,950	\$8,660	\$7,220	\$2,390	\$4,000	
400,	Storrs, H. E., Nelson Pellett, A. Purdy, E. B.							
502,	Smith, W. C. White, E. J. Pratt, E. Sheers	14,091	4,717	8,597	6,051	2,065	3,010	E. Eldridge, T. Weed.
588,	Story M. C.,.....	13,894	5,241	9,389	6,594	2,293	3,268	G. Law, D. Palmer.
602,	Stansbury, E.,.....				6,690	2,255		A. H. Shultz.
247,	Van Der Karr, Leonard & Patrick Lavin,.....	14,916	5,039	9,129	6,416	2,218	3,194	T. Van De Karr, R. Powers.
	Van De Bogart, N., Jas. E. Van Horn, J. Y.							
	Williams, W. H. & Enoch Snell,.....	15,476	5,511	9,997	7,151	2,454	3,565	
386,	Willcox, Charles & Hoses Powell,.....	15,422	4,963	8,996	6,332	2,192	3,128	T. Burch, H. M. Burch, S. M. Richmond.
173,	Whitlsey, John,.....	12,760	5,794	10,578	7,515	2,525	3,738	J. B. Willcox, G. Beaudet..
		11,645	5,469	9,116				L. R. Lyons.

## BLACK RIVER CANAL.

*Abstract of mechanical and section work.*

No. of proposal.	NAMES OF BIDDERS.	DELTA FEEDER.				LOCK HOUSES.		NAMES OF GUARANTY.
		Section work.	Guard lock.	Bridges.	Culverts.	One on Section No. 18.	Eleven on Secs. 22 to 31.	
	Engineer's estimate,.....	\$10,070	\$6,130	\$880	\$500	\$ 340	\$3,575	
415, 413	Adams, Morace & H. W. Adams, .....	\$10,140	\$6,371	.....	.....	.....	.....	E. B. Armstrong, R. S. Doty.
502, 503	Burgess, John, .....	10,510	6,246	.....	.....	.....	.....	William Spontenburgh, Isaac Plak.
678	Brayton, Harvey & Matthew Clark, .....	13,900	7,423	789	.....	.....	.....	George Brayton, David Utley.
839, 831, 849	Britton, Joseph W. & Edward Swain, .....	9,760	.....	.....	\$659	.....	.....	A. Bell, S. Swain, S. Britton.
738, 740	Cromwell, A. E. & Samuel Comstock, .....	14,180	8,284	.....	.....	.....	.....	C. Comstock, John Stryker.
775	Coyte, P. H., .....	8,100	.....	.....	.....	.....	.....	Patrick Burns, E. Allen.
763, 74, 75, 76, 767	Cronk, Hiram, .....	9,100	.....	.....	882	.....	.....	John Cronk, J. B. Bradt.
375	Carter, Charles E. & Griffith D. Griffith, .....	.....	.....	.....	.....	435	\$4,785	G. W. Jones, A. Baker, E. Ely.
568	Donaldson, Samuel & Edmond Slocver, .....	10,460	5,927	.....	.....	.....	.....	David Utley. (strong, J. L. Watkins.
742	Emmerson Selden A. & George Emerson, .....	12,240	6,734	644	588	.....	.....	R. G. Savery, H. Emerson, E. B. Arm.
793, 795, 796	Ely, Erasmus, .....	11,800	7,298	1,656	.....	.....	.....	G. Brayton, D. Utley, E. S. Brayton.
754, 756, 754	Frazee, J. O. & G. McDonald, .....	9,935	5,710	.....	.....	.....	.....	A. and James Merrill.
845, 846	Gould, G. H., .....	.....	.....	.....	.....	4,125	.....	E. Plumb, P. Miller.
812	Howe, D. B., .....	.....	.....	.....	.....	450	4,950	G. Brayton, E. Ely.
731	Harding, Francis, .....	.....	.....	.....	.....	345	3,795	John Burgess, J. Whitney.
637	Hardy, Daniel, .....	8,670	.....	.....	.....	.....	.....	N. Schuyler.
356	Joelin, C. E., .....	47,775	.....	.....	.....	.....	.....	D. F. Sterling, D. Utley.
547	Lobdell, Joshua, .....	13,627	.....	.....	.....	.....	.....	L. Hopkins, R. Judson, S. B. Rexford.
736	Lent, De Huron, .....	19,803	.....	.....	.....	.....	.....	A. D. Barber, S. Van Dreser.
809, 810, 830	Lent, Abram, .....	9,802	.....	.....	.....	279	3,069	E. H. Burdick, C. Burdick.
738, 734	McEachron, J. & Walker Whiteley, .....	9,890	.....	.....	.....	.....	.....	J. Keech, H. Blasier, C. Brayton.
15	Mills, T. G., .....	9,710	.....	.....	.....	.....	.....	H. Brintnall, Powers, H. Swan.
3	Myers, W. E., .....	14,025	7,731	.....	.....	.....	.....	G. Brayton, D. Utley.
806	Middler, C. C., Nehemiah Chase, Joseph Brint-	.....	.....	.....	.....	.....	.....	S. Hart, C. B. Sedgewick, J. D. Norton.
336	nall, Paul, P. Middler & Raymond Middler, .....	8,920	6,123	.....	.....	500	5,500	R. Shaw, W. E. Myers, G. Brayton.
789, 790	Mills, Caleb & Lafayette Hill, .....	.....	.....	1,192	568	.....	.....	J. S. Newton, L. Newton.
	Newton, William, Warren, .....	13,749	7,235	.....	.....	.....	.....	

## PROPOSALS—(CONTINUED.)

No. of proposal.	NAMES OF BIDDERS.	DELTA FEEDER.				LOCK HOUSES.		NAMES OF GUARANTY.
		Section work.	Guard lock.	Bridges.	Culverts.	One on Section No. 18.	Eleven on Secs. 22 to 31.	
		\$10,070	\$6,130	\$980	\$500	\$340	\$8,575	
319	Engineer's estimate,	\$10,075	\$6,130	\$986	.....	.....	.....	Charles Sees, J. I. Wilce.
780, 782	Peck, Ethel,	9,835	\$7,178	.....	.....	.....	.....	Seth Miller, J. Duff.
821	Prindle, James & Patrick Gilboy,	8,720	.....	.....	.....	.....	.....	W. Gilbert, J. Hanly.
776	Pierce, James,	.....	.....	.....	.....	518	\$8,698	E. G. Savery, B. C. Dean.
761	Perry, J. J. Jr.,	10,070	\$7,790	2,870	\$507	.....	.....	P. V. Kellogg, S. Utley, O. B. Mattison.
298	Rae, Alexander,	8,755	6,204	.....	.....	.....	.....	George Strover, T. G. Dillingham.
747	Richardson, Phineas and John, & James Ray,	12,080	7,759	\$3,680	507	.....	.....	T. H. Bates, T. G. Holley.
391, 392, 393 } 777, 778 }	Shippy, J. G.,	.....	5,325	.....	.....	.....	.....	R. Chase, H. Capron.
20	Shippy, Nathan,	.....	.....	.....	.....	.....	.....	N. Schuyler.
825	Schuyler, Aaron,	10,075	6,100	912	290	.....	.....	George Brayton, D. Utley.
785	Shaw, Roderick, Josiah Crosby & G. W. Jones,	10,411	7,087	1,242	319	.....	.....	E. B. Smith, E. Shaw.
159	Shaw, King,	.....	8,984	.....	.....	500	.....	A. Bell, S. Swain.
772, 737	Spencer, Utley,	.....	.....	.....	.....	490	5,390	Richard Langshore.
791	Snyder, Nelson & William Watson,	.....	.....	.....	.....	400	4,400	H. C. Bill, Jay Olney.
374, 376	Slater, J. M.,	.....	.....	.....	.....	400	4,400	T. Brown, J. Ufford.
12	Ufford, N. A., F. Ferguson & Jas. Tullock,	14,235	.....	.....	.....	.....	.....	J. Potter, H. O. Van Vorst.
847, 848, 850 } 851, 853 }	Van Vorst, T. B.,	15,175	.....	.....	.....	.....	.....	John West.
798, 799	Whittlesey, John,	.....	835	.....	.....	.....	3,080	James Reese.
836	Whittlesey, Walter & Henry S. Shedd,	10,505	6,911	.....	739	306	3,344	C. Constock, J. Stryker.
768	Ward, John & Stephen Van Dresser,	9,500	7,540	1,068	693	.....	.....	J. Armstrong.
	Walsworth, Elsie,	.....	1,014	.....	.....	.....	.....	

No. of proposition.	NAMES OF BIDDERS.	DAMS.		Hauling about at Williams- port to dam.	RESERVOIRS.			NAMES OF GUARANTY.
		Across B. R. at H. Falls.	Across B. R. at E. R. at Carthage.		At Wood hull.	N. B. of B. R.	No. 1, S. B. of B. R.	
	Engineer's estimate,.....	\$4,500	\$3,000	\$900	\$8,000 add \$800	\$13,700 2,800	\$8,000 1,400	
802, 803	Burgess, John,.....				\$16,204	\$26,229	\$14,664	Wm. Sponenburgh, Isaac Fisk.
831, 830, 849	Britton, Joseph W., Edward Swain,.....	\$6,481	\$10,165					A. Bell, S. Swain, G. Britton.
758	Baldwin, G. W.,.....	7,239	7,239					N. J. Beach.
93, 94	Crowwell, A. E.,.....	5,405	9,315		8,349	15,088	8,315	David Utley.
763 to 767	Cronk, Hiram,.....	6,597	8,198		13,585	24,005	18,750	John Cronk, J. B. Bradt.
676	Clark, Matthew,.....				7,583	14,712	8,355	H. and G. Brayton, D. Utley.
180	Dunn, Peter,.....				8,460	14,474	8,446	R. and J. Dann.
793, 795, 796	Ely, Erasmus,.....		8,312					C. Brayton, D. Utley, E. S. Brayton.
787, 811	Fox, John & Bayley,.....					22,420		J. Benedict, C. H. Wood, N. J. Beach.
854	Fisk, Isaac,.....			\$1,048			9,807	M. Baehrer, J. W. Roberts.
732, 733	Grant, N. B.,.....							W. Wheelock, J. R. Tharratt.
845, 856, 832	Gould, G. H.,.....	6,009	4,216					E. Plumb, P. Miller.
752	Hodgkins, J. P.,.....							H. McCallum.
773	Harron, Elliott,.....				7,969	14,770	8,619	W. Baldwin, W. Johnson.
80, 805	Johnson, William & Elliot Harron,.....	7,154	8,464					W. Baldwin, J. W. Pratt.
841	Mitchell, James & Thomas Brown,.....							W. H. Fisk, W. Kimball.
731	Miller, R. E.,.....			942	9,664	16,871	8,705	W. W. Wright, D. S. Howard.
833, 834	Phillips, Solomon & Chester Ray,.....	5,979	8,202		15,675	27,725	15,410	W. W. Wright, D. S. Howard.
734	Post, Peter B.,.....				8,069	16,536	8,463	N. J. Beach, D. Utley.
278, 284	Rasbeck, J. M., Fred. Reese & Geo. Rasbeck,...	4,007	6,247		16,000	31,875	16,840	J. Talcott, W. Hall.
391, 421, 428 777, 778	Shippy, Nathan,.....	5,210	6,262		5,609	10,243		P. Remington, C. Gray.
140	Shew, Lyman,.....				5,120	9,644	5,411	R. Chase, H. Capron.
786, 843	Stewart, P. S. Wm. L. Easton, Peter Kirby,.....		9,484					Charles E. Clark, Caleb Lyons.
804	Thomson, E. K., J. McEachron & E. B. Thomson,...		7,878		13,640	23,432	12,305	J. W. Postwick, N. J. Beach.
816	Van Wagner, F. D.,.....	6,091	6,804					Horatio Seymour, T. E. Clark.
447, 48, 50 851, 853	Whittlesey, John,.....	4,777		867				W. Peck, E. H. Tyler.
797, 800, 807	Whittlesey, Walter & Henry S. Shedd,.....	4,038	6,296					John West.
795, 799	Whittlesey, Walter & Henry S. Shedd,.....				11,176	16,765	9,272	James Reese.
438	White, Harry,.....				6,286	11,616	5,758	do De Witt C. Stephens.



# PROPOSALS—(CONTINUED.)

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[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	RESERVOIRS.		Sluices.	Road Bridge at Ill. Falls.	Stone Culv. Sec. No. 30.	Improvement of Bl. Riv'r.	Valve Gates.	NAMES OF GUARANTY.
		No. 2.	At Twin S. B. of E. R.						
		\$8,500 addl.	\$12,000 Lakes.						
	Engineer's estimate,.....	\$8,500 addl.	\$12,000 Lakes.	\$10,300	\$750	\$550	\$153,189	\$3,390	
413, 416	Adams, Horace & H. W. Adams,.....								E. B. Armstrong, R. S. Doty.
892, 898	Burgess, John,.....	\$15,973	\$24,339				\$217,071		Wm. Spenceburgh, Isaac Fick.
831, 889, 849	Britton, Joseph W., Edward Swain,.....			\$13,454			198,977		A. Bell, S. Swain, S. Britton.
423	Barkley, Alexander,.....						111,069		H. Shepherd.
318	Brintnall, Hiram, Charles Nichols & J. Brech,.....						162,557		J. D. Norton.
98, 94	Cromwell, A. E.,.....			15,605			151,802		David Utley.
738, 749	Cromwell, A. E. & Samuel Comstock,.....	9,592		10,315		\$596			C. Comstock, John Stryker.
763 to 767	Cronk, Hiram,.....								John Cronk, J. B. Bradt.
118	Candee, Wm., P. H. Reed, B. Ashley, &c.,.....	15,780	16,640				180,691		D. Denunton, Samuel Hart.
678	Clark, Matthew,.....	9,391	9,990						H. and G. Brayton, D. Utley.
180	Dann, Peter,.....	9,611		12,241					R. and J. Dann.
793, 795, 796	Ely, Krastus,.....			11,612			151,858		C. Brayton, D. Utley, E. S. Brayton.
754, 796	Fraser, J. O. & G. McDonald,.....						169,886		A. and James Merrill.
787, 811	Fox, John & Bayley,.....	11,757			\$636				J. Benedict, C. H. Wood, N. J. Beach.
732,	Grant, N. O.,.....								W. Wheelock, J. R. Tharratt.
845, 846	Goold, G. H.,.....								E. Plumb, P. Miller.
	Harroun, Elliot,.....	9,899	10,557						W. Baldwin, W. Johnson.
80,	Johnson, William & Elliot Harroun,.....						141,271		W. Baldwin, J. W. Pratt.
570	Kasson, J. M., T. Reynolds, R. Hatch, &c.,.....			10,531			111,631		David Utley.
547	Lobdell, Joshua,.....			13,116					L. Hopkins, D. Judeon, S. B. Roz-
809, 810,	Leah, Abram,.....			18,010					E. H. Burdick, C. Burdick.
829	Leah, Geo., Jr. & Stephen L. Bate,.....								A. D. Barber, J. Matteson.
774	Lyons, Lyman R.,.....			10,603			135,715		James Reese.
783,	McEachron, J. & Walter Whittlesey,.....								J. Keech, H. Blazier, G. Brayton.
164	Mills, Theodore G., & Wm. Mills,.....						134,206		H. Swan, H. Brintnall, R. Pown.
841	Mitchell, James & Thomas Brown,.....	9,900	11,825						W. E. Fisk, W. Kimball.
731	Miller, R. B.,.....	18,060							W. W. Wright, D. S. Howard.
733	McGill, John, Jr.,.....							\$2,125	James Ray, M. Dunlap.
789, 790	Newton, William & Warren Newton,.....			11,641					J. S. Newton, L. Newton.

843	Ostrander, Philip & Anthony Frasier,	.....	.....	.....	.....	127,719	Ben. Frasier, D. W. C. Stephens.
780, 782	Pringle, James & Patrick Gilroy,	.....	9,837	.....	.....	.....	Seth Miller, J. Duff.
832, 833, 834	Phelps, Solomon & Chester Ray,	.....	.....	.....	.....	146,471	N. J. Beach, D. Wiley.
735	Prayn, R. H. & Gilbert Davidson,	.....	.....	.....	.....	.....	C. B. Lanning, W. W. Frothingham.
745	Post, Peter B.,	.....	.....	.....	.....	.....	J. Talcott, W. Hall.
840	Payn, Samuel,	.....	.....	.....	.....	111,237	George Stroyer, W. B. Ford.
391, 422, 777, 778	Shippay, Nathan,	.....	.....	.....	.....	165,397	R. Chase, H. Capron.
680	Shaw, Roderick & Matthew Clark,	.....	.....	.....	.....	.....	H. and G. Brayton.
772, 737	Snyder, Nelson & William Watson,	.....	13,396	.....	.....	.....	Richard Langshore.
736, 843	Stewart, P. S., Wm. L. Eaton, Peter Kirby,	.....	13,426	.....	.....	159,183	J. W. Bostwick, N. J. Beach.
750	Sweet, Gerrit C. & Jason C. Osgood,	.....	.....	.....	.....	120,415	J. W. Bates, E. N. Toby, B. L. Wood.
686	Symons, John & G. W. Wood,	.....	.....	.....	.....	.....	Horatio Seymour, T. E. Clark.
804	Thompson, E. K., J. McEachron &.,	.....	21,587	.....	.....	.....	M. and G. Brayton.
249	Udley, Squire,	.....	.....	.....	.....	.....	O. B. Matteson, P. V. Kellogg.
816	Van Wagener, F. D.,	.....	.....	.....	.....	131,160	W. Peck, E. H. Tyler.
840, 731, 833	Whitacey, John,	.....	.....	.....	.....	479	John West.
847, 848	Whitacey, Walter & Henry S. Shedd,	.....	.....	.....	.....	593	James Reese.
797, 807, 808	Whitacey, Walter,	.....	.....	.....	.....	.....	do
800	Whitacey, Walter & Henry S. Shedd,	.....	553	.....	.....	.....	do
798, 799	Whitacey, Walter & Henry S. Shedd,	.....	.....	.....	.....	.....	J. T. Wiles, J. W. Caslar.
827	Wiles, J. J.,	.....	.....	.....	.....	.....	Homor Randall, D. Moore.
840	Wright, W. W.,	.....	16,454	.....	.....	128,923	De Wit C. Stephens.
438	Wright, Harry,	.....	.....	.....	.....	.....	.....
7, 248	Wright, Harry,	.....	8,215	.....	.....	.....	.....

**ENLARGEMENT OF THE ERIE CANAL.**  
*Eastern Division.—Accepted Propositions.—Western Sub-division.*

No. of proposition.	NAMES OF PROPOSERS.	Character of Work.	Amount of bid.	Engineers' estimate.	NAMES OF GUARANTY.
783	J. C. Shipley,.....	Section No. 112,.....	\$20,220	\$20,600	W. C. Champlin, J. Wymen Jones.
414	H. & G. Adams,.....	do 117,.....	16,147	21,000	Claimed by old contract.
	Lynden, Abell,.....	do 118,.....	14,706	17,000	do
	Marcellus & Cady,.....	do 119,.....	16,805	19,000	do
	J. Y. Van De Bogart,.....	do 120,.....	16,119	18,500	do
	J. W. Narrows,.....	do 121,.....	14,060	18,600	do
	E. N. Kelsey,.....	do 122,.....	11,970	15,000	do
130	Squire Utley,.....	do 125 & 126,.....	51,841	54,100	P. V. Kellogg
503	Minor O. Story,.....	do 127 & 128,.....	47,829	52,700	G. Law, D. Palmer.
428	T. H. Bates,.....	do 129,.....	27,631	27,800	A. Rae, A. D. Barber.
250	Squire Utley,.....	do 130,.....	27,666	26,500	P. V. Kellogg.
611	Alexander Rae,.....	do 131 & 132,.....	40,645	40,200	T. G. Holley, P. V. Kellogg.
724	Namen Davis,.....	do 133,.....	22,025	21,700	P. V. Kellogg, A. D. Barber.
9	W. Kimball & Co.,.....	do 134,.....	14,692	17,400	J. D. Kari, K. H. Bangs, W. L. Houlard, Savary.
			\$341,456	\$370,100	
376	A. H. Prescott & Co.,.....	Lock No. 40,.....	\$27,800	\$27,500	Charles A. Wheaton.
132	J. K. Elwood & Co.,.....	do 41 & 42,.....	52,640	53,700	G. H. Brown, J. B. Bradt.
			\$80,440	\$81,200	
605	T. H. Fisher & Co.,.....	Stone culverts on sec. No. 111,.....	\$1,330	\$1,380	J. E. Whipple.
446	J. C. Shipley,.....	do 111 & 112,.....	1,763	1,900	W. C. Champlin, J. Wymen Jones, J. S. Ray.
218	J. P. Whipple & Co.,.....	do 118 to 126,.....	3,761	3,360	J. Palmer, D. C. Balla.
403	T. H. Fisher & Co.,.....	do 127,.....	2,077	2,310	J. E. Whipple.
605	J. Upton & Co.,.....	do 128 to 130,.....	8,205	9,070	Assigned by Fisher & Co.
213	J. P. Whipple & Co.,.....	do 131 to 132,.....	3,238	3,520	J. Palmer, D. C. Balla.
603	J. Upton & Co.,.....	do 133 & 134,.....	2,368	2,560	Assigned by Fisher & Co.
			\$20,742	\$22,800	

605	T. H. Fisher & Co., .....	Waste weirs on sec. No. 126, .....	\$3,741	\$3,750	J. E. Whipple.
245	Van De Bogart & Co., .....	do 127, .....	3,837	3,750	
613	Alexander Eas., .....	do 124, .....	3,611	3,750	T. G. Holley, P. V. Kellogg.
			\$11,189	\$11,250	
604	James Matheson, .....	Dam, feeder and bulk-head, .....	\$11,443	\$12,000	S. Adams, E. Seymour.
431	J. Borden & Co., .....	Bridge abutments sec. No. 101 to 106, .....	\$12,978	\$13,670	D. Utley, J. Morris.
558	A. Myers & Co., .....	do 112 to 22, .....	13,728	13,610	C. Elwood, D. Mason.
400	H. E. Storrs & Co., .....	do 125 to 30 & at New London, .....	8,116	9,520	E. Eldridge, T. Weed.
719	W. Candee & Co., .....	do 131 to 34, .....	3,231	4,060	D. Denison, S. Hart.
			\$38,053	\$40,860	
	Corning & Towsend, .....	Bridge superstructures, .....	\$25,456	\$25,650	
600	Seymour & Wood, .....	Valve gates, .....	\$1,513	\$1,650	H. Seymour, T. E. Clark.

## SUMMARY.

Sections, .....	\$41,456	\$70,106
Locks, .....	80,440	81,200
Canals, .....	20,743	23,800
Waste weirs, .....	11,189	11,250
Dam, feeder and bulk head, .....	11,443	12,000
Bridge abutments, .....	38,053	40,860
Bridge superstructures, .....	25,456	25,650
Valve Gates, .....	1,513	1,650
	\$330,291	\$503,510

## BLACK RIVER CANAL.

*Accepted Propositions.*

No. of proposition.	NAMES OF PROPOSERS.	Character of work.	Amount of bid.	Engineers' estimate.	NAMES OF GUARANTY.
756	Fraser & McDonald,	Delta Feeder. Section,	9,985	10,070	A. & James Merrill.
755	do	Guard lock,	5,710	6,130	
			\$16,645	\$16,200	
677	Brayton & Clark,	Bridges,	\$759	\$880	George Brayton, D. Utley.
749	J. C. Shippy,	Canals,	\$507	\$500	T. H. Bates, T. J. Holley.
791	J. M. Slater,	Lock houses, section No. 13,	400	340	H. C. Brill, Jay Olney.
845	G. H. Gould,	do	4,125	3,575	E. Plumb, P. Miller.
			\$4,525	\$3,915	
795	Whittlesey & Shedd,	Dam at High Falls,	\$4,038	\$4,500	James Reese.
843	P. S. Stewart & Co.,	Canals,	7,878	8,000	J. W. Postwick, N. J. Beach.
841	Mitchell & Brown,	Williamsville,	942	900	W. H. Fisk, W. Kimball.
841	do	Dams for reservoirs,	35,566	35,800	
834	Phelps & Ray,	Woodhall,	8,069	8,800	N. J. Beach, D. Utley.
			\$50,493	\$58,000	
249	Squire Utley,	Sluices,	\$11,334	\$11,500	O. B. Matteson, P. V. Kellogg.
843	G. H. Gould,	Road bridge at High Falls,	\$636	\$750	E. Plumb, P. Miller.
807	Whittlesey & Shedd,	Canal, sec. No. 30,	\$393	\$550	James Reese.
844	W. W. Wright,	Improvement of Black river,	\$128,923	\$133,189	Homer Randall, D. Moree.
686	Seymour & Wood,	Valve gates,	\$2,839	\$3,300	H. Seymour, T. E. Clark.

## SUMMARY.

	Amount of bid.	Engineers' estimate.
Delta feeder. Section and lock, .....		
Bridges, .....	\$15,645	\$16,200
Culverts, .....	789	880
Lock houses, .....	587	500
Dams, .....	4,525	2,915
Sluices, .....	56,493	59,000
Road bridge, .....	11,324	11,500
Culvert, section No. 30, .....	636	750
Improvement of Black River, .....	393	560
Valve gates, .....	128,923	153,139
	2,839	3,300
	<u>\$22,074</u>	<u>\$248,785</u>



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**MIDDLE DIVISION.**

**BIDS FOR WORK**

**LET AT ALBANY, NOVEMBER 18th, 1851.**

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## ERIE CANAL ENLARGEMENT—MIDDLE DIVISION.

*Abstract of propositions for sections on the Eastern Sub-division.*

No. Prop.	NAMES OF BIDDERS.					NAMES OF GUARANTY.				
	Engineers' Estimate,	Sec. 135	Sec. 136	Sec. 137	Sec. 138	Sec. 139	Sec. 140	Sec. 141		
	\$25,360	\$29,186	\$25,013	\$20,596	\$23,706	\$13,315	\$25,258			
10	Allen, Seabury, & C. C. Joslin, .....	27,163	22,754	20,875	24,349	12,265	23,739	Marcellus Weston and Joseph Blair.		
65	Ashley, C. J., A. Chrisman, O. A. Clark, .....	29,961	27,334	20,673	23,455	23,455	23,558	P. R. Root and H. Van Horne.		
58	Adams, H. B., Sharps, H. W. Adams, .....	29,442	24,140	20,707	23,455	23,455	55,272	Bissell, Langford, Comstock & Armstrong.		
4	Brainard, L. W., Wm. E. Ginton, .....	57,574	43,703	44,391	46,390	25,122	55,272	Wm. Beard, B. C. Brainard.		
38	Borden, Joseph, Willard H. Bennett, .....	25,924	22,066	17,591	19,032	11,049	22,397	David Utley and John Norris.		
101	Breed, Joseph, C. Nichols, H. Brinthal, .....	25,083	22,745	18,127	20,411	11,891	23,433	Hamilton White.		
114	Burke, James, .....	27,928	28,222	19,605	22,612	11,975	22,084	A. H. Ball, J. W. Scoville.		
79	Barker, Wm., Cephas C. Barker, .....	25,321	22,045	18,160	21,121	11,670	29,094	J. W. Barker and L. W. Conkey.		
6	Carmichael, B. F., Oliver H. Chapman, .....	34,639	28,789	24,283	37,936	.....	21,037	Isaac Otter.		
8	Cady, Asa W. & E. F., .....	26,310	22,760	16,533	19,387	.....	22,950	Asa Cady.		
27	Case, S. F., M. L. Lee, A. M. Farwell, .....	26,911	23,000	18,681	21,610	12,032	22,950	Ely Farwell and Charles E. Case.		
33	Carpenter, Charles, .....	27,981	23,275	.....	.....	.....	21,492	V. W. Smith.		
53	Crosset, Wm. L., & Wm. L. J., .....	23,306	19,910	16,016	18,799	.....	20,179	George Syrrill and George Brooks, jr.		
56	Candee, Wm., P. R. Reid, B. Ashley, & C. .....	27,145	24,347	19,626	22,219	10,500	20,713	Russell Dugly and Daniel Dennison.		
57	Clark, W. H., D. Ward, L. Spraker, .....	26,747	23,500	18,806	19,220	12,368	24,213	Richard H. Cushman and A. Hoffman.		
61	Cleveland, Jas. T., .....	22,730	21,171	16,033	18,882	10,667	22,586	Willet Stillman and D. W. C. Stevens.		
73	Candee, Daniel, Nelson Candee, .....	22,730	21,171	16,033	18,882	9,679	19,806	John Larkin and C. C. Middler.		
78	Candee, Horace, Julius Williams, .....	23,197	20,728	15,985	19,529	11,048	19,094	William Candee and Sam'l Hart.		
90	Cronse, Jacob, Conrad Shoemaker, .....	24,021	21,912	18,081	19,918	11,311	20,214	Henry Rehels and Levy Snell.		
107	Case, C. G., Josiah W. Baker, .....	26,601	22,855	18,447	20,965	12,086	29,917	J. S. T. Strannahan.		
113	Clark, Albert, .....	35,342	35,021	24,560	27,679	14,857	29,468	Merritt Clark and B. H. Marks.		
21	Delano, Morris, J. G. Lund, .....	36,601	31,566	.....	.....	.....	.....	Alanson Sumner.		
30	De Gray, C. J. & Henry, .....	19,521	16,674	13,606	15,660	9,104	16,290	R. C. Kenyon and H. H. Coats.		
48	Davidson, John, .....	27,602	21,282	17,152	19,179	12,063	20,733	Thos. J. Richmond and Jos. Wellington.		
83	Decker, Nicholas H., .....	26,648	21,143	18,497	20,880	11,672	22,199	Hugh Mc Clellan.		
6	Delong, Hiram, Alfred Earls, .....	26,560	22,646	21,177	22,619	16,215	23,696	P. R. Root and William Chrisman.		
51	Estabrook, T. D., T. W. Cheesbro, & Fish .....	27,345	23,831	19,534	24,380	15,638	27,072	C. G. Case and J. W. Baker.		
11	Frank, Wm. J. & James H., .....	25,137	21,018	17,897	18,840	15,638	23,003	Hiram Delong.		
26	Farwell, Samuel, Sam'l Zimmerman, .....	25,528	21,886	17,914	20,592	11,327	21,659	J. S. T. Strannahan.		
41	Fisher, Thomas H., Jacob Groat, .....	28,086	24,414	19,194	23,339	12,932	24,948	J. E. Whipple.		
43	Frazee, Benjamin, .....	24,463	21,123	17,507	21,442	11,540	19,840	Charles Vrooman and John A. Frazee.		
68	Frazee, Jacob, .....	19,720	.....	.....	.....	.....	19,514	Benjamin Frazee and Eliphalet Frazee.		

# PROPOSALS—(CONTINUED.)

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[ASSEMBLY

Model No.	NAMES OF BIDDERS.		Sec. 135	Sec. 136	Sec. 137	Sec. 138	Sec. 139	Sec. 140	Sec. 141	NAMES OF GUARANTY.
	Engineers' Estimate,	.....	\$25,360	\$29,186	\$25,013	\$20,586	\$23,706	\$13,315	\$25,258	
89	Frazer, Chester W.,	.....	16,610	19,907	17,113	15,192	17,162	10,406	19,074	Benl. Frazer, Albert Briggs, & O. Clark.
98	Forster, J. C.,	.....	27,386	31,731	27,039	22,460	25,035	16,086	27,590	Geo. Stone and Niles Higginbotham.
110	Frazer, Jesse,	.....	.....	23,564	20,339	16,818	20,138	.....	19,842	Benjamin Frazer and John A. Frazer.
13	Hitchcock, M. F., Lee A. Hitchcock,	.....	.....	22,871	19,357	.....	.....	.....	.....	Luke Hitchcock and Sands Higginbotham.
22	Hart, Samuel,	.....	19,037	22,181	18,634	15,976	18,005	10,337	19,258	C. C. Middler.
28	Hess, Daniel,	.....	.....	.....	21,032	16,976	19,152	.....	.....	Archibald Hess and Warren Norton.
29	Hart, Charles, Joseph Hart,	.....	17,620	21,242	18,183	15,132	18,176	10,229	19,772	Samuel Hart.
49	Hart, Marshall, Francis F. Allen,	.....	18,014	21,585	18,967	14,818	17,429	10,095	18,710	Samuel Hart.
96	Howe, Otis B.,	.....	.....	.....	.....	.....	21,721	12,170	23,169	Delos De Wolf.
100	Hamblin, James, Henry Candee,	.....	.....	.....	.....	.....	19,320	10,821	19,344	Samuel Hart and C. C. Richardson.
44	Kelsey, Elisha N.,	.....	18,436	24,078	20,950	16,455	17,855	10,231	19,072	De Witt C. Stevens and Warren Norton.
103	Kimball, W., W. Gawne, N. Kingsley, &c.	.....	18,622	22,018	19,276	15,555	17,955	10,231	20,650	Isaac D. Ennis and R. H. Bangs.
3	Lewis, William, Henry C. Morton,	.....	20,091	23,214	20,785	16,403	19,631	11,970	.....	Sandford Adams and Jesse Matteson.
70	Lester, Moses W., Samuel M. Stokes,	.....	22,977	26,364	.....	.....	.....	.....	.....	James Lanagan and Michael Murphy.
9	Lamson, James, Michael Murphy,	.....	19,663	23,165	20,599	15,457	24,614	10,960	20,984	M. Pomeroy and Thomas Y. Howe, jr.
2	McGowan, Thos., W. R. Lee, P. Rehel,	.....	34,963	40,413	32,318	29,800	34,925	.....	.....	G. Ross, B. Ross, A. Myers and J. Myers.
3	Myers, Wm. E.,	.....	23,251	24,061	20,848	16,563	18,943	10,333	20,627	J. Hart, C. B. Sedgwick, and J. O. Norton.
21	Middler, C. C., N. Chase, J. Brintnall, &c.	.....	27,391	31,512	26,460	23,858	28,000	.....	.....	A. E. Cromwell.
25	Matteson, Samuel, 2d,	.....	24,006	26,648	23,497	19,534	22,524	12,289	23,259	T. T. Davis and H. W. Van Buren.
39	Myers, Austin, Wm. Johnson,	.....	23,396	26,626	.....	.....	.....	.....	.....	Erri Seymour and Sandford Adams.
47	Norton, Samuel W., Thomas Jones, Jr.,	.....	20,617	25,805	21,973	17,994	20,891	11,205	21,673	Thurflow Weed.
60	McDonald, James,	.....	20,458	25,280	22,094	17,816	20,554	12,027	21,718	Thomas Van der Kar and Rob. Powers.
82	Mills, Theodore G., & Peter Dunn,	.....	22,390	27,047	27,068	19,956	23,031	13,099	23,973	.....
115	Moss, James B.,	.....	22,927	26,849	25,170	19,876	21,414	11,825	23,303	E. N. Kelsey, W. Norton, D. C. Stevens.
59	Newcomb, Benjamin W.,	.....	25,434	29,308	26,106	21,018	24,410	13,734	23,383	John N. Rathbone.
57	Nichols, John H.,	.....	23,005	25,551	22,556	18,608	21,219	12,891	23,886	David Hess, A. D. Barber.
48	Norton, Warren, & Archibald Hess,	.....	25,591	30,103	25,356	20,505	.....	.....	.....	Lavid Brill and George Hankins.
24	Olney, J., & John Brill,	.....	21,447	31,277	27,490	22,922	26,434	14,360	27,806	Wm. Chrisman and Oliver Gibson.
15	Palmer, Jedediah, & Job P. Whipple.	.....	32,830	39,046	32,881	27,050	32,687	16,168	33,730	Horace Peck and James Pratt.
19	Peck, Linus Jones,	.....	.....	.....	22,739	18,706	.....	.....	.....	P. B. Langford, H. Lawton and N. Mudge.
46	Parker, Israel S.,	.....	.....	.....	22,739	18,706	.....	.....	.....	Samuel Hart and C. C. Middler.
49	Palmer, Noah,	.....	18,806	22,605	18,873	15,455	16,341	9,556	25,755	Bostwick, Judson, Barton, & Waggoner.
80	Page, David, J. Carrier, E. Judson, &c.,	.....	29,000	33,642	25,842	19,592	21,470	15,312	25,755	.....
67	Pratt, F., R. C. Hatch, J. Ecker, &c.,	.....	20,042	24,320	22,273	15,488	17,996	11,121	21,923	C. A. Wheaton, Horace White.

16 Richardson, P., J. Richardson, & J. Rae,	24,736	26,799	24,883	19,773	23,827	13,828	19,959	Abraham Scalpin and Marshall Hart.
20 Richman, T. J., & F. Morley,	22,792	23,966	23,635	19,693	20,545	11,093	20,111	James B. Taylor and J. M. Lynch
7 Shultz, Alexander H.,	24,999	28,639	22,645	21,884	23,964	9,676	20,055	P. C. Holden and H. W. Allen.
12 Soper, H. U.,	19,473	22,621	20,067	17,737	19,222	11,114	.....	N. B. Lee.
23 Stimpson, S. W., J. D. Mack, &c.,	22,735	24,846	22,085	18,147	.....	.....	22,241	Thomas S. Smith and J. L. Bagg.
31 Smith, Stias F., & Co.,	20,394	25,704	22,433	17,619	20,622	11,694	20,620	Samuel Hart and H. Brintnall.
32 Sutherland, A., G. G. Huggins, and others	20,476	26,156	22,453	16,876	19,334	11,975	22,154	John Sandford and Deodatus Wright.
37 Sturtevant, John A., John Freyre, &c.,	.....	.....	.....	.....	.....	.....	.....	James Ashfield, and F. B. Shinola.
52 Sankey, Wm. J. T.,	25,266	29,485	24,898	33,795	.....	.....	23,084	Daniel Crouse and Sylvester Stroud.
64 Stroud, Charles,	23,491	29,197	23,492	17,692	22,477	12,763	20,742	Samuel French and P. Van Valkenburgh,
66 Stillman, Willett,	21,511	25,742	20,924	17,241	20,463	10,710	18,232	Benjamin Frazee and Willard Fox.
76 Shattuck, John,	.....	18,649	.....	.....	16,396	9,723	22,846	Nicholas Schuyler.
74 Schuyler, Aaron,	19,582	25,192	19,867	16,086	22,418	10,415	23,414	Henry J. Raymond and F. H. Raggles.
92 Swan, J. B., & David C. Nodwell,	23,653	36,333	23,187	18,970	22,157	11,906	.....	Royal White and D. McCarty.
97 Shannahan, John, James Shannahan, &c.,	22,431	25,465	22,686	19,108	21,592	.....	23,640	Thomas James.
99 Savage, James, & Solomon Brown,	29,097	31,243	29,613	21,214	29,051	11,057	23,956	John Sandford.
108 Sage, Ezekiah,	23,571	35,425	23,236	19,190	22,259	12,628	23,081	Anson Sutherland and C. C. Middled.
111 Stannard, George, & Cadwell Belken,	.....	.....	.....	.....	20,150	12,582	20,227	Harvey E. Williams and R. Willett.
17 Thompson, James, & Wm. J. Nelson,	20,206	24,977	20,037	16,982	18,879	11,479	21,491	E. N. Kelsey & H. Bennett.
62 Tupper, Harvey N.,	23,269	28,432	23,711	20,117	21,344	12,966	22,322	Thomas Van Der Karr and R. Powers.
81 Van Der Karr, Leonard, and P. Lavin,	29,802	34,435	29,791	27,420	30,075	15,557	20,744	U. Phelps and Daniel Farnham.
106 Van Slyck, A., S. P. Thompson & others,	21,287	25,126	21,638	17,376	20,107	11,110	24,070	Simeon Draper and Wm. H. Benton.
71 Webster, J. R., N. Shannon, E. Rosebrook	23,887	28,821	24,854	20,728	22,041	13,175	24,899	W. V. Woodworth & M. D. Hollister.
84 Woodworth, Samuel,	23,746	28,211	24,818	19,437	22,104	13,709	17,449	G. W. Wright and R. Willett.
86 Williams, Harvey E.,	17,568	21,792	18,861	14,130	21,736	.....	25,169	James W. Nye and P. V. Kellogg.
93 Webb, Henry S.,	.....	.....	.....	.....	15,829	.....	17,538	Samuel Hart and Wm. Candee.
102 Williams, Lucien,	17,213	20,662	18,211	13,895	16,159	8,851	18,818	E. Rhoades and A. P. Downer.
109 Walrath, Brown, Beebe, Downer &c.,	19,002	22,991	21,562	16,376	18,181	10,605	22,632	Gardner Wooster and Daniel Pratt.
112 Woolson, Albina, & Christopher Keltz,	.....	.....	.....	.....	19,252	10,122	.....	.....



## PROPOSALS—(CONTINUED)

NAMES OF BIDDERS.						NAMES OF GUARANTY.					
Engineers' estimate,	Sec. 142	Sec. 143	Sec. 144	Sec. 145	Sec. 146	Sec. 147	Sec. 148				
	\$32,023	\$31,716	\$23,586	\$25,062	\$28,356	\$24,553	\$28,224				
10 Allen, Seabury, and C. C. Joslin, .....	31,512	29,378	21,098	22,968	26,343	24,285	27,147	Marcellis, Weston, and Joseph Blair.			
58 Adams, Hollis, B. Sharpsteen, H. W. Adams	38,134	36,664	.....	.....	.....	.....	.....	Bissell, Langford, Comstock & Armstrong.			
11 Brinard, L. W., Wm. E. Ginton, .....	59,561	60,706	49,408	49,813	53,142	52,401	49,850	Wm. Beard, B. C. Brinard.			
38 Borden, J., Willard H. Bennett, .....	27,424	27,040	20,372	21,971	24,356	21,840	24,347	David Utley and John Norris.			
65 Bond, Ezra, Jr., .....	30,066	29,378	20,737	19,599	24,162	22,566	25,795	Samuel French and P. Van Valkenburgh.			
101 Breed, J., C. Nichols, H. Brintnall, .....	33,530	32,560	22,925	24,185	26,253	23,772	26,238	Hamilton White.			
117 Burke, James, .....	26,888	27,124	20,830	21,762	23,803	23,100	24,635	A. H. Eall, W. J. Scoville.			
79 Barker, William, Cephus C. Barker, .....	36,404	35,910	27,661	28,225	30,740	29,020	22,862	J. W. Barker and L. W. Conkey.			
8 Carmichael, B. F., O. H. Chapman, .....	25,314	26,059	19,513	20,091	20,459	19,810	24,847	Isaac Acker.			
27 Case, S. F. M. L. Lee, A. M. Farwell, .....	31,027	31,485	22,247	23,958	25,883	23,860	25,964	Ely Farwell and Charles E. Case.			
33 Carpenter, Charles, .....	31,033	29,715	.....	.....	.....	.....	.....	V. W. Smith.			
53 Crossett, Wm. L., & Wm. L. Jr., .....	29,380	25,916	19,585	21,335	21,412	20,250	20,876	George Syrell and George Brooks, Jr.			
56 Candee, Wm., P. R. Reed, B. Ashley, & C.	29,830	29,794	23,595	23,861	26,081	24,300	27,265	Russell Dugyl and Daniel Dennison.			
61 Cleveland, Jas. T., .....	28,904	29,442	20,729	21,256	23,853	21,886	24,680	Richard H. Cushney and A. Hoffman.			
73 Candee, Daniel, Julius Candee, .....	25,972	26,172	19,266	20,325	18,738	19,382	21,381	W. Stillman and Dewitt C. Stevens.			
78 Candee, Horace, Nelson Williams, .....	24,862	24,655	18,468	19,122	16,616	19,180	20,323	John Larkin and C. C. Midler.			
90 Crouse, Jacob, Conrad Shoemaker, .....	26,517	25,913	19,157	20,837	23,449	23,074	23,452	William Candee and Samuel Hart.			
107 Case, C. G., Josiah W. Baker, .....	32,310	31,712	22,444	23,670	25,504	24,145	26,509	Henry Rebels and Levy Shell.			
113 Clark, Albert, .....	38,934	37,664	26,632	.....	.....	.....	.....	J. P. T. Strannahan.			
24 Delano, Morris, J. G. Lund, .....	37,948	34,873	.....	.....	.....	.....	.....	Merritt Clark and E. H. Marks.			
39 DeGraw, C. J. and Henry, .....	21,105	20,677	15,465	15,953	17,357	16,810	16,823	Alanson Sumner.			
48 Davidson, John, .....	27,723	27,688	21,585	21,473	22,990	21,200	21,956	R. C. Kenyon and H. H. Coates.			
54 De Wolf, Delos, .....	.....	.....	.....	.....	24,876	22,303	26,217	Thomas J. Richmond and Jos. Welling.			
83 Decker, Nicholas H., .....	29,827	28,739	20,831	22,043	24,364	22,398	25,283	Otis B. Howe.			
6 Delong, Hiram, Alfred Earls, .....	31,252	32,041	23,401	24,701	27,015	27,225	28,483	P. R. Root and Wm. Chrisman.			
51 Estabrook, Chesbro, & H. H. Fish, .....	36,663	37,843	24,395	26,494	27,199	26,390	27,071	C. G. Case and J. W. Baker.			
11 Frank, Wm. J. & James H., .....	26,134	28,317	19,841	22,267	26,199	22,670	24,901	Hiram Delong.			
26 Farwell Sam'l, Samuel Zimmerman, .....	30,496	29,903	21,241	22,073	24,075	22,670	24,901	J. S. T. Strannahan.			
41 Fisher, Thomas H., Jacob Groat, .....	31,840	29,426	23,748	25,486	27,677	25,156	27,974	J. E. Whipple.			
43 Fraze, Benjamin, .....	25,700	24,825	.....	.....	.....	.....	.....	Charles Vrooman and John A. Fraze.			
89 Fraze, Jacob, .....	.....	.....	.....	18,081	.....	18,425	.....	Benjamin Fraze and Eliphalet Fraze.			
63 Fraze, Chester W., .....	22,444	22,072	17,740	18,908	24,170	19,944	21,465	Benjamin Fraze, Albert Briggs, and Orrin Clark.			

28 Foster, J. C.	33,941	34,081	26,489	25,380	30,164	29,485	33,070	Geo. Stone and Niles Higginbotham.
29 Gardner, Addison.	30,662	30,249	21,257	23,357	20,129	19,361	19,935	H. D. Eddy and Addison Gardner.
22 Hart, Samuel.	26,864	25,320	18,672	20,380	24,632	19,018	27,750	C. C. Midler.
29 Hart, Charles, Joseph Hart.	27,301	26,440	20,026	21,473	24,632	19,824	19,751	Samuel Hart.
36 Hagan, Thomas J., P. Mattison.					35,332	32,959	32,873	James Kelley and Warren Brady.
40 Hart, Marshall, Francis F. Allen.	24,215	25,303	18,393	19,801	22,669	17,165	19,711	Samuel Hart.
96 Howe, Otis B.	20,539	29,185	21,123	22,763				Delos De Wolf.
100 Hamblin, James, Henry Candee.	24,828	24,805	17,592	16,344	16,596	18,653	21,024	Samuel Hart and C. C. Richardson.
44 Kelsey, Elisha N.	23,080	22,952	19,058	20,136	22,238	20,965	22,351	Dewitt C. Stevens and W. Norton.
103 Kimball, W., W. Gawne, N. K. Kingsley, &c.	27,648	27,245	20,122	22,354	22,228	22,368	22,171	Isaac D. Ennis and R. H. Bangs.
9 Lemson, James, Michael Murphy.	24,036	24,208	18,300		21,237	19,655	20,388	James Laugan and Michael Murphy.
70 Lester, Moses W., Samuel M. Stokes.	26,348	26,837	19,679	21,299	22,573	21,218	23,893	M. Pomeroy and Thomas Y. Howe, Jr.
21 Midler, C. C., N. Chase, J. Brintrain, &c.	32,459	31,636	21,790	21,767	23,142	20,485	21,608	S. Hart, C. B. Selgwick and J. D. Norton.
39 Myers, Austin, Wm. Johnson.	27,958	27,730	21,539	22,572	23,849	22,482	25,577	T. T. Davis and H. W. Van Buren.
45 Martindale, J. H. & J. M. Ferrell.					26,183	25,135	26,462	Orville Clark.
60 McDonald, James.	26,422	27,562	19,956	21,391	23,300	22,350	23,941	Thurlow Weed.
82 Mills, Theodore G., & Peter Dunn.	26,397	26,760	19,398	20,898	22,169	21,130	23,081	Thos. Van Der Karr and Robert Powers.
32 Moss, James B.	32,454	31,391	23,203	24,506	25,914	24,810	27,042	E. N. Kelsey, W. Norton, & D. C. Stevens.
50 Newcomb, Benjamin W.	31,058							Abraham, Willard Fox.
77 Norris, Archibald R.			17,166	17,771	20,129	19,361	19,935	B. Frazee and Willard Fox.
81 Nichols, John H.	33,164	32,413	23,286	25,598	27,189	25,970	28,323	John N. Rathbone.
28 Norton, Warren & Archibald Hess.	31,702	30,797						Daniel Hess and A. D. Barber.
15 Palmer, Jedediah & J. P. Whipple.	37,786	36,930	29,138	28,301	30,491	28,735	30,942	Wm. Chrisman and Oliver Gilson.
19 Peck, Linus Jones.	41,440	40,585	31,170	33,284	36,188	64,475	35,708	Horace Peck and James Pratt.
49 Palmer, Noah.	24,023	23,390	17,669	18,385	18,529	18,357	19,445	Samuel Hart and C. C. Midler.
60 Page, David, J. Carrier, E. Judson, &c.	34,371	32,049	27,340	24,856	29,864	22,680	25,298	Bostwick, Judson, Barton, & Waggoner.
94 Pringle, James, & Thos. O. Bassett.	25,093							Henry Rebel and Levi Snell.
65 Pierce, James.				21,246	22,446	20,770	22,568	Milton Gilbert and Jabez Hawley.
67 Pratt, F., R. C. Hatch, J. Ecker, &c.	26,903	27,832						Charles A. Wheaton, Horace White.
16 Richardson, P., J. Richardson, & J. Rae.	26,946	26,553					23,832	
20 Richman, T. J., & Fredk Morley.	28,468	31,235	21,770	23,213	22,974	22,640	23,159	Abraham Scalpin and Marshall Hart.
83 Root, Oliver P.	28,729	27,383						Sands Higginbotham.
91 Rice, John B. & Co.	31,140	29,225	22,456	23,564	26,022	24,105	26,167	P. V. Kellogg and O. B. Mattison.
12 Shultz, Alexander H.	25,917	25,411	19,022	20,642	21,711	20,540	28,162	James B. Taylor and J. M. Lynch.
19 Soper, H. U.	28,588	27,924	20,974	21,486	23,052	21,593	22,217	P. C. Holden and H. W. Allen.
31 Smith, Silas F. & Co.	26,715	20,291	19,685	21,180	23,609	20,875	25,808	Thomas S. Smith and J. L. Bagg.
32 Sutherland, A., & G. G. Huggins, & oth's.							25,388	Samuel Hart and H. Brintrain.
37 Sturtevant, J. A., John Freymire, &c.	31,821	31,769	29,796	22,779	25,171	22,575	25,462	John Sandford and Deodatus Wright.
64 Stroud, Charles.	26,624	26,727	18,632	22,480	26,132	26,025	23,608	Daniel Crouse and Sylvester Stroud.
66 Stillman, Willett.							22,828	Samuel French and P. Van Valkenburgh.
76 Shattuck, John.								Benjamin Frazee and Willard Fox.

# PROPOSALS—(CONTINUED.)

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[ASSEMBLY

No. of Prop.	NAMES OF BIDDERS.		Sec. 142	Sec. 143	Sec. 144	Sec. 145	Sec. 146	Sec. 147	Sec. 148	NAMES OF GUARANTY.
	Engineers' estimates, .....		\$32,023	\$31,716	\$23,586	\$25,062	\$28,356	\$24,533	\$28,224	
74	Schuyler, Aaron, .....	29,264	28,553	20,926	20,493	20,493	25,677	23,536	26,270	Nicholas Schuyler.
92	Swain, James B. and D. O. Nodwell, .....	29,772	29,203	22,234	23,461	23,461	25,677	23,536	26,270	Henry J. Raymond & F. H. Ruggles.
99	Savage, James, & Solomon Brown, .....	35,378	34,945	26,153	23,977	23,977	35,330	26,560	28,999	Thomas James.
106	Sage, A. G., & A. T. Punham, .....	.....	.....	23,144	25,166	25,166	25,832	31,115	25,018	John B. Challan and B. W. Sage.
108	Sage, Hezekiah, .....	30,822	31,601	22,064	23,803	23,803	25,936	23,800	24,924	John Sandford.
111	Stannard, George, and Cadwell Belden, .....	30,402	30,148	22,274	23,662	23,662	24,698	23,800	24,924	A. Sutherland and C. C. Midler.
117	Thompson, James, and Wm. J. Nelson. ....	26,222	25,231	19,938	19,721	19,721	21,130	22,050	26,428	Harvey E. Williams and R. Willett.
62	Tupper, Harvey N., .....	26,808	31,076	31,702	21,959	21,959	23,732	22,050	26,428	E. N. Kelsey and H. Bennett.
81	Van Der Karr, Leonard, & P. Lavin, ....	35,785	36,497	29,073	30,079	30,079	32,506	32,175	32,428	T. Van Der Karr and Robert Powers.
105	Van Slyck, A., S. P. Thompson & others, .....	28,231	27,311	19,673	20,395	20,395	21,799	20,724	21,578	U. Phelps and Daniel Farnham.
71	Webster, J. R., N. Shannon, E. Rosebrook .....	33,418	32,577	24,587	30,004	30,004	32,510	31,640	34,350	Simcon Draper and Wm. H. Renton.
84	Woodworth, Samuel, .....	34,885	35,080	23,923	26,029	26,029	27,227	25,531	30,058	W. W. Woodworth, & M. D. Hollister.
103	Williams, Lucien, .....	21,718	23,809	15,877	17,153	17,153	15,649	17,583	18,088	G. W. Wright and R. Willett.
109	Walrath, J. J., H. Brown, J. L. Bebee, .....	20,808	22,487	15,682	16,152	16,152	14,644	16,818	16,175	Samuel Hart and Wm. Candee.
	Geo. E. Downer, Lewis Bebee, &c., .....	27,294	26,997	20,426	20,260	20,260	23,045	19,233	21,640	Elijah Rhoades and A. P. Downer.

## PROPOSALS—(CONTINUED.)

Number of Propositions	NAMES OF BIDDERS.		NORTH LINE.			SOUTH LINE.			NAMES OF GUARANTY.
	Engineers' Estimate, . . . . .		Sec. 149	Sec. 150	Sec. 151	Sec. 149	Sec. 150	Sec. 151	
			\$26,668	\$41,622	\$39,739	\$19,612	\$74,996	\$49,148	
10	Allen, Seabury, & C. C. Joslin, . . . . .	24,312	32,354	31,199	39,739	22,196	54,249	44,243	Marcellis, Weston and Joseph Blair.
58	Adams, H., B. Sharpsteen, & H. W. Adams, . . . . .	29,749	42,626	39,843					Bissell, Langford, Comstock, & J. Armstrong,
44	Brainard, L. W., Wm. E. Ginton, . . . . .	46,519	61,483	46,176					Wm. Heard, B. C. Brinard.
33	Borden, J., Willard H. Bennett, . . . . .	23,008	32,163	30,565					David Utley and John Morris.
65	Bond, Ezra, Jr., . . . . .	20,100	32,392	33,167					Samuel French, and Peter Van Valkenburgh,
75	Barnes, Orson, . . . . .	21,224	34,439	36,190					William Barnes, W. Phelps, & J. G. White.
101	Breed, J., C. Nichols, H. Brintnall, . . . . .	21,224	25,834	24,611					Hamilton White.
114	Burke, James, . . . . .	25,787	33,865	31,113					A. H. Ball, J. W. Scoville.
79	Barker, Wm., C. C. Barker, . . . . .	22,272	30,560	28,524					J. W. Barker and L. W. Conkey.
5	Carmichael, E. F., Oliver H. Chapman, . . . . .	23,257	28,533	28,510					Isaac Otter.
8	Cady, Asa, W. & B. F., . . . . .	23,497	27,790	27,966					Asa Cady.
27	Case, S. F., M. L. Lee, A. M. Farwell, . . . . .	25,129	31,485	30,242					Edi Farwell and Chas. E. Case.
33	Carpenter, Chas., . . . . .		34,368	32,045					V. W. Smith.
53	Crossett, Wm. L. & Wm. L., Jr., . . . . .	21,769	25,204	24,666					Geo. Syrrrell and Geo. Brooks, Jr.
57	Candee, Wm., P. R. Reid, B. Ashley, & C., . . . . .	24,865	34,705	31,924					Russel Degyl and Daniel Dennison.
61	Clark, W. H., D. Ward, L. Spraker, . . . . .	25,106	38,519	35,195					Richard H. Cushman and A. Hoffman.
72	Cleveland, James T., . . . . .	21,779	27,681	25,756					Willett Stillman and Dewitt O. Stevens.
73	Cromwell, A. Es., . . . . .	25,246	35,401	29,320					George Brayton.
73	Candee, Daniel, Julius Candee, . . . . .	21,087	25,034	24,774					John Larkin and O. C. Midler.
78	Candee, Horace, Nelson Williams, . . . . .	21,901	27,989	25,639					William Candee and Samuel Hart.
90	Crouse, Jacob, Conrad Shoemaker, . . . . .	21,929	34,442	32,374					Henry Rehels and Levi Snell.
107	Case, C. G., Josiah W. Baker, . . . . .	29,476	40,649	42,746					J. P. T. Stranahan.
113	Clark, Albert, . . . . .	33,189	42,365	45,487					\$2,933 Merritt Clark and B. H. Marks.
40	Cummings, John P. & T., . . . . .		35,966	37,288					Geo. Clark and N. P. Freeman.
29	Delano, Morris, J. G. Lund, . . . . .	18,691	23,340	27,527					54,176 Alanson Sumner.
39	De Graw, C. J. & Henry, . . . . .	22,000	37,125	30,507					27,998 R. C. Kenyon and H. H. Coats.
48	Davidson, John, . . . . .	24,354	32,769	30,127					43,956 T. J. Richmond and Joseph Welling.
54	De Wolf, Delos, . . . . .	23,044	28,386	28,110					Otis B. Howe.
42	Ennis, Robert, . . . . .	23,944	28,386	28,110					Joseph M. Demmon and D. Chapman.
51	Estabrook, T. D., T. W. Cheesbro, & Fish, . . . . .	25,569	34,639	32,976					C. G. Case and J. W. Baker.
11	Frank, Wm. J., & James H., . . . . .	25,719	36,244	33,786					Hiram DeLong.
26	Farwell, Samuel, S. Zimmerman, . . . . .	22,364	32,635	30,460					44,234 J. S. T. Stranahan.



## PROPOSALS—(CONTINUED.)

Number of proposition	NAMES OF BIDDERS.		NORTH LINE.			SOUTH LINE.			NAMES OF GUARANTY.
	Engineers' estimate,.....		Sec. 149	Sec. 150	Sec. 151	Sec. 149	Sec. 150	Sec. 151	
			\$26,663	\$41,622	\$39,739	\$19,612	\$74,966	\$49,148	
41	Fisher, Thomas H., Jacob Groat, .....	26,463	34,863	33,132					J. E. Whipple.
59	Frazer, Chester W. ....	21,922	24,172	24,379		25,252	41,565		B. Frazee, A. Briggs, Orrin Clark.
22	Hart, Samuel, .....	21,177	36,761	23,932					C. C. Midler.
29	Hart, Charles, Joseph Hart, .....	21,046	28,449	24,039					Samuel Hart.
36	Hogan, Thos. J., Patrick Masterson, .....					31,025	66,359	58,094	James Kelley and Warren Brady.
40	Hart, Marshall, Francis F. Allen, .....	20,461	29,902	24,049					Samuel Hart.
100	Hamblin, James, Henry Candee, .....	20,094	28,560	27,316		16,816	51,343	58,305	Samuel Hart and C. C. Richardson.
104	Hebbard, Charles, M. B. Hutchins, .....	19,375	24,024	23,924		18,204	46,772	32,344	Russell Hebbard and Norman Otis.
14	Judd, Harley, Chas. Hazard, .....	32,059	42,498	36,149		20,036	53,101	36,339	A. H. Van Valkenburg and Julius French.
44	Kelsey, Elissa N., .....	22,297	29,354	29,320		18,304	51,656	39,786	Dewitt C. Stevens and Warren Norton.
103	Kimball, Woodman, W. Gawn, Kingsley, &c	21,101	31,038	29,451		19,985	46,440	33,731	Isaac D. Ennis and R. H. Bangs.
9	Lamson, James, Michael Murphy, .....	21,648		24,661		17,921	47,611	35,740	James Lamson and Michael Murphy.
70	Lester, Moses W., Samuel M. Stokes, .....	32,354	30,277	29,732		17,629	53,705	38,448	M. Pomeroy and Thos. Y. Howe, jr.
21	Midler, C. C., N. Chase, J. Brintnall, &c., .....	20,726	28,502	24,868		23,158	51,707	38,336	S. Hart, C. B. Sedgwick, and John D. Norton.
39	Myers, Austin, Wm. Johnson, .....	24,765	21,416	30,283					T. T. Davis and H. W. Van Euren.
45	Martindale, J. H. & John M. Ferrell, .....	26,150							Orville Clark.
60	McDonald, James, .....	23,534	31,024	30,826		18,948	57,331	39,647	Thurloow Weed.
82	Miller, Theodore G., and Peter Dunn, .....	21,738	25,757	28,291		17,146	54,706	39,935	Thomas Van Der Karr and Robert Powers.
115	Moss, James B., .....	26,552	33,471	32,449		20,436	48,649	39,318	Benjamin Frazee and Willard Fox.
77	Norris, Archibald R., .....	30,376	24,530	25,229		17,656	44,528	31,879	John N. Rathbone.
87	Nichols, John H., .....	27,701	37,012	36,875		23,011	56,345	43,432	Horace Peck and James Pratt.
19	Peck, Linus Josen, .....	35,630	41,566	41,808					Samuel Hart and C. C. Midler.
49	Pelmer, Noah, .....	19,691	31,260	21,881		15,336	46,578	30,402	J. W. Bostwick, Judson, Barton, Waggoner.
80	Pape, David, John Carrier, E. Judson, &c.	24,151	31,868	28,245		20,383	61,910	35,865	Henry Rehel and Levi Snell.
94	Pringle, James, & Thos. O. Bassett, .....			27,348				35,756	Milton Gilbert and Jabez Hawley.
95	Pierce, James, .....	22,979	28,421	29,456		16,475	45,066		Charles A. Wheaton, Horace White.
67	Pratt, F., R. C. Hatch, J. Ecker, &c., .....			26,248				39,991	Abraham Scalpin and Marshall Hart.
16	Richardson, P., J. Richardson, & J. Rae, .....	25,215	31,581	31,168		20,014	50,866		P. V. Kellogg, and O. B. Matteson.
20	Richman, Thos. J., & F. Morley, .....	23,036	29,860	26,859				45,599	James B. Taylor and J. M. Lynch.
91	Rice, Jerry B. & Co., .....	24,354	37,600	36,262		17,564	67,815		P. C. Holden and H. W. Allen.
7	Shultz, Alexander H., .....	27,921				22,640	50,900		
12	Soper, H. U., .....	21,776	25,641	25,328		16,696	44,634	32,623	

31 Smith, Elias F. & Co., .....	23, 121	30, 054	28, 398	17, 883	56, 161	42, 142	Thomas, S. Smith, and J. L. Bagg,
32 Sutherland, A. and Geo. G. Huggins & oth's,	27, 818	31, 082	27, 398	24, 047	57, 180	37, 305	Samuel Hart and H. Brintnall.
37 Sturtevant, John A., John Fremyre, &c., ..	24, 613	30, 256	36, 214	17, 559	68, 049	43, 570	John Sandford and Deodatus Wright.
52 Sankey, Wm. J. T., .....	.....	.....	.....	.....	62, 231	48, 563	James Ashfield and F. B. Spinola.
64 Stroud, Chas., .....	.....	.....	.....	.....	67, 591	49, 610	Daniel Crouse and Sylvester Stroud.
66 Stillman, Willett, .....	22, 812	38, 152	38, 364	25, 479	.....	.....	Samuel French and Peter Van Valkenburgh.
92 Swain, James B. and David C. Nodwell, ..	26, 345	32, 668	31, 042	20, 662	54, 188	41, 779	Henry J. Raymond and F. H. Ruggles.
108 Sage, Hezekiah, .....	.....	.....	.....	.....	53, 174	41, 252	John Sandford.
111 Stannard, George, and Cadwell Belden, ..	22, 753	27, 013	25, 677	19, 256	59, 803	43, 364	Anson Sutherland and C. C. Miller.
62 Tipper, Harvey N., .....	25, 084	33, 828	32, 355	18, 424	47, 535	36, 299	E. N. Kelsey and H. Bennett.
69 Van Kissen, Austin, and Walter Clough, ..	15, 683	19, 270	18, 231	11, 960	35, 946	23, 941	C. W. Pomeroy and Thomas Y. Howe.
81 Van Der Karr, Leonard, and P. Lavin, .....	30, 713	34, 062	33, 919	22, 233	58, 284	46, 656	Thomas Van Der Karr and Robert Powers.
109 Van Slyck, A. S. P. Thompson & others,	21, 376	25, 369	24, 356	.....	.....	.....	Uriah Phelps and Daniel Farnham.
71 Webster, J. R., N. Shannon, E. Rosebrook,	28, 458	43, 540	44, 355	.....	.....	.....	Simeon Draper and Wm. H. Benton.
84 Woodworth, Samuel, .....	28, 414	41, 302	41, 618	.....	.....	.....	W. W. Woodworth and M. D. Hollister.
86 Williams, Harvey E., .....	20, 007	22, 404	21, 899	16, 896	51, 414	32, 125	George W. Wright and R. Willett.
102 Williams, Lucien, .....	20, 202	24, 204	18, 617	16, 971	45, 781	31, 274	Samuel Hart and Wm. Candee.
109 Walrath, Brown, Hebee, Downer, Hebee, &c	22, 898	30, 778	27, 760	19, 745	54, 182	34, 564	Elijah Rhoades and A. P. Downer.
112 Woolson, A., & Christopher Keltz, .....	22, 502	28, 989	27, 818	21, 039	47, 134	37, 496	Gardner Woolson and Daniel Pratt.
63 Wells, Lee, and Meredith Thomas, .....	.....	.....	.....	14, 486	46, 422	33, 000	Darwin Wells.

## BRIDGE ABUTMENTS.

No. of prop- erty	NAMES OF BIDDERS.			NAMES OF GUARANTY.		
	Sec. 135. 1 Bridge.	Sec. 136. 2 Br'gs.	Sec. 137. 1 Bridge.	Sec. 140. 1 Bridge.	Sec. 143. 1 Bridge.	Sec. 146. 2 Br'gs.
	Engineers' estimate,.....	\$1,571	\$3,142	\$1,571	\$1,571	\$4,080
7	Breed, Joseph, Charles Nishols & H. Brintnall,....	1,676	3,305	1,677	2,160	4,080
10	Bond, Ezra, jun.,.....	.....	.....	.....	.....	5,115
14	Brown, R. H.,.....	1,953	3,837	1,953	1,693	4,969
16	Burchard, Backus, Amos Bixby & N. A. Gurney,...	1,532	3,094	1,532	1,434	4,931
22	Bruen, Timothy,.....	1,377	2,695	1,362	1,697	3,812
6	Candees, Wm., Peter R. Reid, B. Ashboy, Henry D. Denison, Joseph A. Scoville & Jason Candee,....	1,506	3,053	1,506	1,956	3,903
23	Cady, Asa W. & E. F.,.....	1,421	2,897	1,418	1,840	3,460
2	Decker, Nicholas H. & John E. Matthews,....	1,526	2,952	1,526	1,961	3,925
4	Davidson John,.....	1,449	2,925	1,402	1,798	3,253
20	Frazier, Benjamin,.....	1,733	3,196	1,623	1,409	4,147
18	Gere, R. N. & Charles W. Stevens,.....	1,579	3,109	1,579	1,465	4,016
26	Howe, Otis B.,.....	.....	.....	.....	1,980	3,935
27	Kingsley, Nathaniel & Eli T. Bangs,.....	1,472	2,865	1,399	1,320	3,513
3	Learned, Edward, Charles G. Learned & George Y. & Albert R. Learned,.....	2,084	3,870	2,085	2,609	4,919
12	Lee, John E., Serranus Britton & J. Vernal,....	1,835	3,621	1,835	1,738	4,691
1	McQuigg, Daniel & John C. Foster,.....	1,357	2,869	1,351	1,743	3,477
29	Norris, Archibald R.,.....	.....	.....	.....	.....	3,857
36	Owens, David E.,.....	1,878	3,746	1,876	2,415	3,238
25	Peck, Lucius Jones,.....	1,788	3,640	1,788	2,300	4,820
25	Pringle, James & Thos. O. Bassett,.....	1,478	2,941	1,442	1,876	4,936
22	Richardson, Phineas & John & Jas. Rae,.....	1,367	2,734	1,362	1,216	3,727
8	Shanahan, John, O. P. Fay & Archd. Hays,.....	1,279	2,853	1,279	1,249	3,830
19	Skadden, John C. jun., & Eliza N. Kelsey,.....	1,132	2,294	1,129	1,279	3,289
13	Swain, James B. & David C. Nowell,.....	1,132	2,294	1,132	1,054	2,804
18	Shoemaker, Conrad & Nathaniel West,.....	2,369	.....	.....	.....	6,087
24	Shannon, Nathaniel,.....	1,614	3,715	1,622	2,076	4,951

20	Storck, H. E., Nelson Pollett, Alfred Purdy, W. C.	1,847	3,084	1,547	1,906	1,517	3,982	Edwin Edridge and Samuel Wood.
25	White, R. B. Smith, E. J. Pratt & Ed. Shaw, ..	.....	.....	.....	.....	1,574	4,270	Daniel Groome and Sylvanus Stroud.
6	Stroud, Charles, .....	.....	3,412	1,728	2,223	1,718	4,419	Thomas Van Der Kar and Patrick Levin.
24	Van Der Kar, Leonard & Patrick Levin, .....	1,718	.....	.....	.....	.....	.....	
	Van Slyck, Albert, Sydney P. Thompson, J. Van	.....	.....	.....	.....	.....	.....	
	Slyck, F., Allen H. Gilbert & Nelson Field, .....	1,800	3,711	1,628	1,581	1,385	3,492	

**BRIDGE ABUTMENTS—(CONTINUED.)**

NAMES OF BIDDERS.		NAMES OF GUARANTY.			
Sec. 146.	Sec. 148.	Sec. 149.	Sec. 151.	Sec. 150.	Sec. 151.
2 Bids.	2 Bids.	1 Bridge.	2 Bids.	Sec. 150.	Sec. 151.
Engineers' estimates.	\$3,142			\$1,671	\$2,925
Breed, Joseph, Charles Nichols & H. Brintnell.	3,163	1,606	3,126	1,634	2,750
Bond, Ezra, jun.	3,946	2,048	3,641		
Brown, R. E.	3,856	1,952	3,599		
Burchard, Backus, Amos Dixby & N. A. Gurney.	3,044	1,631	2,835		
Bruen, Timothy.	2,625				
Candee, William.	3,093	1,506	3,026		
Crossett, Joseph A. Scoville & Jason Candee.			2,633		2,664
Cady, Asa W. & B. F.	2,730	1,340	2,487		
Decker Nicholas H. & John B. Matthews.	2,952	1,856	2,751		
Davidson, John.	2,720	1,396	2,756		
De Wolf, DeLos.	3,023	1,618	2,832	1,518	2,822
Frazer, Benjamin.	3,225	1,625	3,980		
Gere, R. N. & Charles W. Stevens.	3,109	1,879	2,960	1,579	2,900
Hebbard, Clerk & Michael B. Hutchins.		1,843	2,496		
Kingsley, Nathaniel & Eli T. Bangs.	2,709	1,291	2,348	1,293	2,350
Learned, Edward, Charles G. Learned, & George Y. & Albert R. Learned.	3,870	2,065	3,365		
Lee, John B., Serranus Britton & J. Verman.	3,931	1,834	3,374		
McQuigg, Daniel & John C. Foster.	3,683	2,692	1,251		
Martindale, J. H. & John M. Ferrell.	3,559	3,619	1,804		
Norris, Archibald R.	2,896	1,447			
Owens, David E.	2,495	2,029			
Peck, Linus Jones.	3,746	3,753	1,878		
Pringle, James & Thomas O. Bassett.	3,414	3,188	1,616		
Richardson, Phineas & John & Jas. Rao.	2,869	2,889	1,447		
Rice, Jerry B. & Co.	3,023	3,618	2,822		
Shanahan, John, O. P. Fay & Archd. Hays.	2,734	3,167	2,649	1,518	2,822
Swain, James B. & David C. Nodwell.	2,394	2,244	2,087	1,174	2,108
Shoemaker, Conrad & Nathaniel West.	4,673	4,673	4,652		

24	Shannon, Nehemiah, .....	3,145	3,145	1,622	2,928	.....	.....	David Thomas and J. P. Howell.
30	Storrs, H. E., Nelson Pellet, Alfred Purdy, W. O. White, E. B. Smith, E. J. Pratt & Ed. Shaw....	3,084	3,084	1,447	2,874	1,547	2,874	Edwin Eldridge and Samuel Weed.
35	Stroud, Charles, .....	3,288	3,288	1,674	.....	.....	.....	Daniel Grouse and Sylvanus Stroud.
6	Van Der Kar, Leonard & Patrick Levin, .....	3,512	3,512	1,718	3,179	.....	.....	Thomas Van Der Kar and Patrick Levin.
34	Van Slyok, Albert, Sydney P. Thompson, Jas. Van Slyok, Jr., Allen H. Gillet & Lemuel Field, .....	2,777	2,777	.....	.....	.....	.....	Darwin Wells.
11	Wells, Leo & Meredith, Thomas, .....	2,172	2,320	1,060	1,570	.....	.....	Lewis Beebe and A. P. Downer.
28	Walrath, John J., Jas L. Beebe, H. Brown, G. E. Downer, Jas. Harbottle & William H. Walrath, .....	.....	3,048	1,544	2,838	1,544	.....	

# *ABSTRACT of propositions for Culverts on Eastern sub-division.*

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[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	SECTION 135.				SECTION 136.				NAMES OF GUARANTY.
		Composite at station 33.	Composite at station 59.	Aggregate of section 135.	Composite at station 11.	Composite at station 41 1/2.	Stone box at station 71.	Aggregate of section 136.		
	Engineer's estimate,.....	\$1,390	\$1,440	\$2,830	\$1,426	\$1,197	\$1,157	\$3,781		
15	Breed, Joseph, Charles Nichols & H. Brintnall,.....	.....	.....	.....	\$1,569	\$1,420	\$1,283	\$4,273	Hamilton White.	
43	Brown, Hiram, Geo. E. Downer, J. Harbottle, &c.,.....	1,324	\$1,365	\$2,690	1,333	1,228	1,134	3,695	E. Rhodes, A. P. Downer, J. J. Walrath.	
46, 47	Bruen, Timothy,.....	1,208	1,257	2,466	1,126	1,075	1,094	3,296	Benj. Fraser, Alb. Briggs, and O. Clark.	
5	Cady, Asa W. & B. E.,.....	1,662	1,715	3,377	1,705	1,443	1,391	4,539	Asa Cady.	
9	Carpenter, Charles,.....	.....	1,407	1,407	1,467	1,280	.....	2,747	V. W. Smith.	
18	Davidson, John,.....	1,416	1,503	2,919	1,443	1,221	1,021	3,685	Thos. J. Richmond and Joseph Welling.	
29	De Wolf, Delos,.....	1,420	1,463	2,883	1,483	1,390	1,259	4,132	Otis B. Howe.	
39	Farwell, Samuel & Samuel Zimmerman,.....	1,364	1,431	2,795	1,483	1,390	1,259	4,132	J. S. T. Stranahan.	
16	Fisher, Thomas H. & Jacob Groat,.....	1,364	1,431	2,795	1,387	1,170	921	3,478	J. E. Whipple.	
12	France, Benjamin,.....	1,364	1,431	2,795	1,387	1,170	921	3,478	Charles Vrooman and John O. Frasee.	
2	Groat, Jacob & Thomas H. Fisher,.....	1,366	1,560	3,066	1,547	1,356	1,259	4,162	J. E. Whipple.	
42	Kimball, Woodman, William Gawne, &c.,.....	1,439	1,587	3,026	1,628	1,296	1,340	4,164	Isaac D. Earl and R. H. Bange.	
1	Lewis, William & Henry C. Morton,.....	1,483	1,531	3,014	1,419	1,268	1,168	3,855	I. S. Parker and J. P. Fitch.	
3	Loomis, Henry & L. D. & J. Van Slyck,.....	2,649	1,784	3,833	1,770	1,643	1,491	4,905	Eliam Thomas and David L. Farnham.	
17	Mallett, Ezra & Levi Curtis,.....	1,624	1,632	3,256	1,618	1,431	1,326	4,375	Josiah Decker and Peter Tracey.	
20	Morton, Samuel W. & Thomas Jones, Jr.,.....	1,480	1,527	3,007	1,640	1,390	1,277	4,207	Eri Seymour and Sanford Adams.	
7	Myers, William, E.,.....	.....	.....	.....	1,757	1,654	1,413	4,824	George Brayton and David Utley.	
34	Norton, Warren & Archibald Hess,.....	1,908	1,956	3,864	1,872	1,820	1,733	5,426	Daniel Hess and A. D. Barber.	
6, 23	Peck, Linus Jones,.....	1,594	1,639	3,233	1,627	1,444	1,246	4,317	Honice Peck and Joseph Pratt.	
44	Pratt, Frederick, Reville C. Hatch, J. Eaker, &c.,.....	1,354	1,433	2,787	1,373	1,272	1,160	3,803	Chas. A. Wheaton and J. M. Kasson.	
22	Sage, Horokiah,.....	1,402	1,437	2,839	1,384	1,282	1,156	3,822	John Sandford.	
37, 38	Shannahan, John & James, Orris P. Fay, &c.,.....	1,424	1,464	2,888	1,357	1,349	1,029	3,735	Royal White and D. McCarthy.	
40	Shannon, Nebemiah,.....	1,521	1,576	3,097	1,470	1,374	1,214	4,038	David Thomas and J. P. Howell.	
10	Stadon, John C. Jr., & Eliza N. Kelsey,.....	1,260	1,293	2,553	1,288	1,189	1,028	3,505	De Witt C. Stephens and W. Norton.	
11	Smith, Silas E. & Co.,.....	1,869	1,896	2,765	1,419	1,301	1,159	3,879	Thomas A. Smith and J. L. Bagg.	

48	Storm, H. E., Alfred Parry, &c., .....	1,633	1,034	2,317	1,056	1,433	1,269	4,398	Edwin Eldridge and Samuel Weed.
23, 26	Stroud, Charles, .....	1,516	1,560	2,076	1,519	1,396	1,233	4,148	Daniel Crouse and Sylvanus Stroud.
31	Van Der Karr, Leonard & P. Levin, .....	1,760	1,813	2,573	1,687	1,610	1,457	4,754	Robert Powers and Thos. Van Der Karr.
8	Van Slyke, Albert, S. P. Thompson, &c., .....	1,993	2,022	4,015	2,016	1,915	1,720	5,631	Uriah Phelps and David L. Farnham.



# PROPOSALS—(CONTINUED.)

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No. • Proposition.	NAMES OF BIDDERS.	SECTION 137.			Sec. 138.	SECTION 139.			NAMES OF GUARANTY.
		Stone box at station 28.	Composite at station 70.	Aggregate of section 137.		Arch at station 51.	Arch at station 20.	Aggregate of section 139.	
	Engineer's estimate.....	\$1,178	\$1,716	\$2,895	\$1,855	\$1,978	\$6,383	\$8,341	
13	Borden, Joseph & Willard H. Bennett.....				\$1,661				David Utley and John Morris.
13	Breed, Joseph, Charles Nichols & H. Brintnall.....	\$1,303	\$1,876	\$3,180	2,112	\$2,434	\$7,623	\$9,667	Hamilton White.
43	Brown, Hiram, Geo. E. Downer, &c.,.....	1,150	1,641	2,791					B. Rhodes, A. P. Downer, & c.
46-47	Bruen, Timothy.....	1,059	1,462	2,522					Benj. Fraase, Alb. Briggs and O. Clark.
14	Ball, John P. & William M. Hill.....				2,612	2,485	9,297	12,742	Joseph Bouton and Samuel Douglass.
5	Cady, Asa W. & B. F.,.....	1,400	2,073	3,473	1,986	2,376	6,964	9,340	Asa Cady.
9	Carpenter, Charles.....		1,795						V. W. Smith.
18	Davidson, John.....	994	1,736	2,730	1,815	2,106	5,910	8,016	Thos. J. Richmond and Joseph Welling.
20	De Wolf, Delos.....	1,279	1,887	3,166	1,956	2,345	6,717	9,062	Otis B. Howe.
29	Farwell, Samuel & Samuel Zimmerman.....	1,270	1,887	3,166	1,956	2,345	6,717	9,062	J. S. T. Strauchan.
16	Fisher, Thomas H. & Jacob Groat.....	942			1,572	1,824	5,477	7,303	J. E. Whipple.
36	Foster, J. C. & O.,.....						7,443		George Stone and Miles Higginbotham.
12	Fraser, Benjamin.....	942	1,668	2,550	1,841	1,868	6,572	8,440	Charles Vrooman and John O. Fraase.
2	Groat, Jacob & Thomas H. Fisher.....	1,283	1,840	3,123					J. E. Whipple.
41	Howe, Otis B.,.....					1,915	6,396	8,313	Delos Dewolf.
42	Kimball, Woodman, William Gawne, &c.,.....	1,215	1,891	3,106			7,030		Isaac D. Earl and R. H. Bange.
3	Leonida, Henry & L. D. & J. Van Slyck.....	1,521	2,116	3,637	2,039	2,450	7,006	9,462	Elam Thomas and David L. Farnham.
17	Mallet, Ezra & Levi Curtis.....	1,864	2,078	3,442					Joshiah Decker and Peter Tracy.
34	Norton, Warren & Archibald Hens.....	1,748	2,374	4,132		2,739	8,954	11,793	Daniel Hens and A. D. Barber.
19	Parker, Israel S.,.....	1,219	1,752	2,971	1,757				Philip B. Langford, H. M. Lawton, &c.
6, 23	Peck, Lorus Jones.....	1,271	2,007	3,278					Hornes Peck and Joseph Pratt.
44	Pratt, Frederick, Revilo C. Hatch, J. Ecker, &c.,.....	1,139	1,764	2,903	1,796	2,076	6,969	9,645	C. A. Wheaton and Joseph M. Kason.
36	Pringle, James & Thomas O. Bassett.....						6,810		Henry Reals and Levi Snell.
32	Sage, Horakiah.....	1,101	1,955	3,056					John Sandford.
37, 38	Shanahan, John & James, Orris P. Fay &c.,.....	1,047	1,861	2,908	1,602	1,936	6,291	8,227	Royal White and D. McCarthy.
40	Shannon, John.....	1,238	1,923	3,161					David Thomas and J. P. Howell.
10	Skaden, John C. jr. & Hlisha N. Kelley.....	1,039	1,623	2,967	1,626				De Witt O. Stephens and W. Norton.

17	Smith, Silas F. & Co., .....	1,150	1,763	2,913	1,776	1,970	6,400	8,370	Thomas A. Smith and J. L. Bagg.
48	Stora, H. E., Alfred Pundy, Nelson Pellett, & Co., .....	2,394	2,655	3,349	2,000	2,388	7,390	9,778	Edwin Eldridge and Samuel Weed.
25, 26	Stroud, Charles, .....	1,253	1,871	3,124	1,878	2,261	7,426	9,687	Daniel Crouse and Sylvanus Stroud.
37	Tupper, Harvey N., .....	.....	.....	.....	1,977	2,402	7,536	9,938	E. N. Kelsey and Hiram Bennett.
31	Van Der Karr, Leonard & Patrick Lavin, .....	1,482	2,228	3,710	2,219	2,617	8,234	10,851	Robert Powers and Thos. Van Der Karr.
8	Van Slyke, Albert, Sydney P. Thompson, & Co., .....	1,733	2,551	4,084	2,263	2,523	6,640	9,163	Uriah Phelps and David L. Farnham.
49	Woodworth, Samuel, .....	.....	.....	.....	2,603	3,518	10,144	13,662	W. W. Woodworth and M. D. Hollister.

# PROPOSALS—(CONTINUED.)

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[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.				SECTION 141.			SEC. 144.	SEC. 145.	SEC. 146.	SEC. 147.	NAMES OF GUARANTY.
	Composite at station 70.	Stone box at feeder.	Aggregate of section 141.	Composite at station 7.	Double arch at station 374.	Composite at station 12.	Composite at section 24.					
	Engineer's estimate,.....	\$5,969	\$1,050	\$7,019	\$1,755	\$5,592	\$1,450	\$2,170				
13	Borden, Joseph & Willard H. Bennett,					\$4,858			David Utley and John Morris.			
15	Breed, Joseph, Charles Nichols & H. Brintnall,.....	\$6,425	1,112	\$7,638	\$1,886	5,395	\$1,579	\$2,352	Hamilton White.			
43	Brown, Hiram, G. E. Downer, J. Harbottle, &c.,	5,644	919	6,563	1,649		1,315	2,030	E. Rhodes, A. P. Downer, J. I. Walrath.			
46	Bruen, Timothy.....				1,587		1,413	2,056	Benj. Frazer, Alb. Briggs and O. Clark.			
14	Ball, John P. & William M. Hill,					7,481			Josiah Bonton and Samuel Douglass.			
5	Cady, Asa W. & B. F.,.....	7,484	1,089	8,573	2,090	5,170	1,725	2,655	Asa Cady.			
9	Carpenter, Charles.....	6,209					1,439		V. W. Smith.			
18	Davidson, John.....	5,280	909	6,189	1,677	4,622	1,888	2,175	Thos. J. Richmond and Joseph Walling.			
29	De Wolf, Delos.....	7,265	1,010	8,275			1,441	2,129	Otis B. Howe.			
39	Farrell, Samuel & Samuel Zimmerman,	7,265	1,010	8,275	1,958	5,393	1,617	2,712	J. S. T. Stranahan.			
16	Fisher, Thomas H. & Jacob Groat,					3,984			J. E. Whipple.			
35	Foster, J. C. & O.,.....	7,491							George Stone and Niles Higginbotham.			
12	Frazer, Benjamin.....	5,392	959	6,351		4,893			Charles Vrooman and John O. Frazer.			
23	Frazer, C. W.,.....	5,638	1,269	6,907					Benj. Frazer, A. Briggs and O. Clark.			
2	Groat, Jacob & Thomas H. Fisher,	6,235	1,045	7,280	1,852		1,559	2,335	Josiah Decker.			
41	Howe, Otis B.,.....	5,970	1,080	7,006	1,661	5,367			Delos Darrow.			
42	Kimball, Woodman, William Gawne, &c.,.....	6,289	1,059	7,348	1,849				Isaac D. Earl and R. H. Bangs.			
3	Loomis, Henry & L. D. & J. Van Slyck,	7,197	1,154	8,351	2,111	5,352	1,772	2,670	Elam Thomas and David L. Farnham.			
17	Mallet, Erna and Levi Curtis,	7,554							Josiah Decker and Peter Tracey.			
4	Owens, David E.,.....					5,243	1,327	2,253	Edward Sims and John Bates.			
28	Page, David, John Carter, Geo. Everson, &c.,				1,794		1,580	2,240	Joseph W. Boatwick, Jas. Judson et al.			
23	Peck, Linnus Jones.....		1,012		2,023		1,639	2,983	Horace Peck and Joseph Pratt.			
44	Pratt, Frederick, Revilla C. Hatch, J. Ecker, &c.,		901	7,295					Chas. A. Whenton and Joseph M. Oason.			
36	Pringle, James & Thomas O. Bassett,	6,904				5,036			Henry Reals and Levi Snell.			
22	Sage, Henekiah.....	6,574	869	7,443	1,915		1,443	2,869	John Sanford.			
37	Shanahan, John & James, Orris P. Fay &c.,	6,033	946	6,979	1,774	4,366	1,448	2,302	Royal White and D. McCarthy.			
40	Shannon, Nebemiah.....	7,434	1,026	8,460	2,000		1,640	2,598	David Thomas and J. P. Howell.			

10	Shaden, John C. jr. & Elisha N. Kelsey, .....	6,189	794	6,983	.....	.....	.....	.....	De Witt C. Stephens and W. Norton.
11	Smith, Silas F. & Co., .....	5,979	904	6,883	.....	4,711	.....	2,290	Thomas A. Smith and J. L. Bagg.
48	Storr, H. E., Alfred Purdy, Nelson Pellett, &c., .....	7,376	1,027	8,403	2,072	5,401	1,689	2,643	Edwin Kidridge and Samuel Weed.
25, 26	Stroud, Charles, .....	6,531	1,018	7,549	1,982	6,380	1,560	2,458	Daniel Crouse and Sylvanus Stroud.
27	Tapper, Harvey N., .....	.....	.....	.....	.....	5,622	.....	.....	E. N. Kelsey and Hiram Bennett.
31	Van Der Karr, Leonard & Patrick Lavin, .....	8,507	1,160	9,667	2,240	5,968	1,813	2,883	Robert Powers and Thos. Van Der Kar.
8	Van Slyke, Albert, Sydney P. Thompson, &c., ..	6,893	1,518	8,413	2,358	4,927	2,622	2,812	Uriah Phelps and David L. Farnham.

## PROPOSALS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	SOUTH LINE.				NAMES OF GUARANTY.
		Section 150. Stone box at station 83.	Section 149. Composite at station 44.	Section 150. Composite at station 3.	Section 151. Stone box at station 55.	
	Engineer's estimate,	\$1,069	\$1,303	\$6,993	\$1,178	
24	Dond, Ezra, Jr.,	.....	\$2,207	\$8,710	\$1,642	Samuel French and P. Van Valkenburg.
15	Breed, Joseph, Charles Nichols & H. Brintnall,	.....	.....	.....	1,375	Hamilton White.
43	Brown, Hiram, G. E. Downer, J. Harbottle, &c.,	.....	.....	.....	.....	E. Rhodes, A. P. Downer, J. I. Walrath.
40, 47	Braun, Timothy,	\$1,136	.....	.....	.....	Benj. Frasee, A. Briggs and O. Clark.
5	Cady, Amos W. & B. F.,	1,199	.....	.....	.....	Asa Cady.
18	Davidson, John,	1,223	.....	.....	.....	Thos. J. Richmond and Joseph Welling.
29	De Wolf, Deles,	1,053	.....	.....	.....	Otis B. Howe.
39	Farwell, Samuel & Samuel Zimmerman,	1,069	1,338	6,700	1,142	J. S. T. Stranahan.
2	Groat, Jacob & Thomas H. Fisher,	1,276	1,534	7,515	1,820	J. E. Whipple.
21	Hobland, Clark & Michael B. Hatchilus,	1,160	1,473	6,236	1,293	Russell Hebbard and Norman Otis.
22, 45	Lester, Moses W. & Stephen M. Stokes,	957	1,216	6,395	924	C. W. Pomeroy and Thomas Y. Howe, Jr.
3	Loomis, Henry & L. P. & J. Van Slyck,	.....	1,683	6,824	1,409	Elam Thomas and David L. Farnham.
4	Owens, David E.,	1,276	.....	.....	.....	Edward Sims and John Bates.
28	Page, David, John Carrier, Geo. Everson, &c.,	1,021	1,227	6,147	1,065	Joseph W. Bostwick, James Judson, &c.
6, 23	Peck, Linus Jones,	1,140	.....	.....	.....	Horace Peck and Joseph Pratt.
30	Rice, Jerry B.,	1,045	1,561	7,147	1,271	P. V. Kellogg and O. B. Matteson.
37, 38	Shannahan, John & James, Orris P. Fay, &c.,	952	1,340	5,467	1,155	Royal White and D. McCarthy.
40	Shannon, Nehemiah,	1,236	.....	.....	.....	Edwin Eldridge and Samuel Weed.
48	Storrs, H. E., Alfred Purdy, Nelson Pellet, &c.,	1,185	1,600	7,376	1,294	Daniel Crouse and Sylvanus Stroud.
35, 26	Stroud, Charles,	1,139	.....	.....	.....	Robert Powers and Thomas Van Der Kar.
31	Van Derkar, Leonard & Patrick Lavin,	1,826	1,727	8,507	1,453	

## ABSTRACT of propositions for Aqueducts.]

No. of proposition.	NAMES OF BIDDERS.	NORTH LINE.		S. LINE.	NAMES OF GUARANTY.
		Canasatego, on Sec. 149.	Chittenango, on Sec. 151.	Chittenango, on Sec. 151.	
	Engineers' Estimate,.....	\$12,226	\$17,334	\$18,204	
16	Beebe, Lewis, Jas. L. Beebe, J. W. Beebe, H. Brown, J. I. Walrath, & G. E. Downer,	14,888	20,122	20,533	Elijah Rhoades, Downer & Walrath.
18	Bond, Ezra, jun.,.....	18,028	28,886	29,536	Samuel French & P. Van Valkenburgh.
33	Borden, Joseph & Willard H. Bennett,...	10,602	15,046	15,494	David Utley & John Morris.
36	Breed, Joseph, C. Nichols & H. Brintnall,	17,052	19,278	19,790	Hamilton White.
37	Ball, John P. & William H. Hill,.....	20,718	27,971	29,251	Josiah Boughton & Samuel Douglas.
5	Cady, Asa W. & B. F.,.....	14,515	19,191	.....	Asa Cady.
23	Crossett, William L. & William L., jun.,...	.....	17,287	17,675	G. Tyrrell, A. P. Downer & J I Walrath.
28	Davidson, John,.....	13,694	15,191	15,575	Thomas J. Richman & Joseph Welling.
1	Filkins, Cornelius,.....	14,044	19,440	.....	Abraham Elwood, Nicholas N. Schuyler.
20	Groat, Jacob & Thomas H. Fisher,.....	16,407	.....	.....	J. E. Whipple.
26	Hebbard, Clark, & Michael B. Hutchins,...	11,167	15,061	15,435	Russell Hebbard & Norman Otis.
14	Kimball, Woodman & William Gawne,	12,917	16,507	16,918	Isaac D. Earll, R. H. Bangs &c.
34	Nathaniel Kingsley & Eli S. Bangs,...	12,420	17,087	17,548	H. P. Mills, H. Swan & H. Brintnall.
35	Mills, Theodore G.,.....	13,103	20,432	18,983	T. T. Davis, H. W. Van Buren.
4	Myers, Austin & Wm. Johnston,.....	12,437	.....	.....	Edward Sims & John Bates.
7	Owens, David E.,.....	16,020	21,070	21,270	
	Peck, Linus Jones,.....				

# PROPOSALS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	NORTH LINE.		S. LINE.	NAMES OF GUARANTY.
		Canasago, on Sec. 149.	Chittenango, on Sec. 151.	Chittenango, on Sec. 151.	
	Engineers' estimate, .....	\$12, 226	\$17, 334	\$18, 204	
8	Page, David, John Carrier, Geo. Everson & Egbert Judson, .....	15, 268	19, 580	20, 246	Joseph W. Bostwick, James Judson & Co.
15	Prescott, Amos H. & Luther Chase, .....	.....	20, 743	21, 127	Chauncey Johnson, C. A. Griffith & Co.
17	Pringle, James & Thomas O. Bassett, .....	13, 289	18, 156	18, 617	Henry Reals & Levi Snell.
19	Pratt, Fred., Reville C. Hatch, J. Ecker, Elijah S. Payne & John L. Dix, .....	.....	16, 570	17, 082	Charles A. Wheaton & J. M. Kasson.
20	Rice, J. B. & Co., .....	11, 853	18, 267	18, 697	P. V. Kellogg & O. B. Matteson.
3	Schuyler, Aaron, .....	12, 478	17, 168	.....	Nicholas Schnyler.
9	Shannon, Nehemiah, .....	.....	18, 336	18, 848	David Thomas & J. P. Horner.
10	Shannahan, John & James, O. P. Fay & Archibald Hays, .....	10, 982	16, 850	17, 183	Royal White & D. McCarthy.
21	Stroud, Charles, .....	14, 324	21, 084	21, 545	Daniel Crouse & Sylvanus Stroud.
25	Sage, Hezekiah, .....	11, 977	17, 021	17, 533	John Sandford.
27	Sage, A. G. & A. T. Dunham, .....	.....	18, 873	19, 176	L. McChesney & Royal Ball.
29	Swain James B. & David C. Nodwell, .....	14, 057	.....	.....	H. J. Raymond & F. H. Ruggles.
31	Skaden, John C. & Elisha N. Kelsey, .....	15, 179	24, 920	24, 732	Dewitt C. Stevens & Warren Norton.
32	Smith, Silas F., .....	16, 562	.....	.....	Thomas L. Smith & J. L. Bagg.
38	Shoemaker, Conrad & Nathaniel West, .....	10, 375	21, 547	.....	John N. Allen.

39 Storrs, H. E., E. B. Smith, A. Purdy, N. Pellett, E. J. Pratt, W. C. Pratt & E. Shaw,	14,955	.....	21,345	Edwin Eldridge & Samuel Weed.
2 Thompson, J. P. & Lemuel Field, .....	.....	17,966	.....	.....
22 Tupper, Harvey N., .....	14,038	19,543	20,183	E. N. Kelsey & Hiram Bennett.
12 Vrooman, Charles, .....	12,773	15,914	16,298	Benjamin Frazee & John O. Frazee.
13 Van Der Karr, Leonard & Patk. Lavin, ..	18,345	27,874	31,649	Thos. Van Der Karr & Robt. Powers.
11 Woodworth, Samuel, .....	18,918	26,781	27,805	.....
24 Wells, Lee & Meredith Thomas, .....	11,884	14,491	14,901	Darwin Wells.



# *ABSTRACT of propositions for Waste Weir.*

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[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.		Section 141. Station 72½.	NAMES OF GUARANTY.
	Engineers' estimate,.....		\$2,647	
9	Cady, A. W. & B. F.,.....		3,674	Asa Cady.
1	Foster, John C. & Co.,.....		3,709	George Stone & Niles Higginbotham.
2	Frazee, C. W.,.....		3,118	Benjamin Frazee, Albert Briggs & Orrin Clark.
6	Frazee, Benjamin,.....		4,508	
12	Howe, Otis B.,.....		2,683	Delos De Wolf.
3	Kasson, Joseph M. & Arthur Lewis,.....		4,170	Charles A. Wheaton.
5	Lester, M. W.,.....		3,522	C. W. Pomeroy & Thomas Y. Henry.
7	Mallett, Erra & Levi Curtis,.....		2,719	Isaiah Decker & Peter Tracey.
10	Owens, David E.,.....		3,284	Edward Sims & John Bates.
11	Pringle, James & Thomas O. Bassett,.....		3,589	Henry Reals & Levi Snell.
4	Stroud, Charles,.....		3,357	Daniel Crouse & Sylvanus Stroud.
8	Skaden, John C. & E. N. Kelsey,.....		3,012	Dewitt C. Stevens & Warren Norton.
13	Shannahan, John & James, O. P. Fay & Arch. Hays,		3,136	Royal White & D. McCarthy.

*ABSTRACT of propositions for Dam and Guard Gate.*

No. of proposition	NAMES OF BIDDERS.		Section 141.	NAMES OF GUARANTY.
	Engineers' estimate,.....		\$2,206	
9	Borden, Joseph & Willard H. Bennett,.....		2,466	Asa Cady.
12	Cady, A. W. & B. F.,.....		3,100	Benjamin Frazee, Albert Briggs & Orrin Clark.
4	Frazee, C. W.,.....		2,984	J. E. Whipple.
3	Groat, Jacob & Thomas H. Fisher, .....		2,396	Delos De Wolf.
7	Howe, Otis B., .....		2,540	Charles A. Wheaton.
10	Kasson, Joseph M., & Arthur Lewis, .....		3,459	C. W. Pomeroy & Thomas Y. Howe.
11	Lester, M. W. & Stephen M. Stokes, .....		2,670	Edward Sims & John Bates.
6	Owens David E.,.....		2,612	Henry Reals & Levi Snell.
1	Pringle, James & Thomas O. Bassett, .....		2,726	
13	Peck, Linus Jones,.....		3,763	
2	Stroud, Charles, .....		2,609	Daniel Crouse & Sylvanus Stroud.
5	Skaden, John C. & E. N. Kelsey,.....		2,307	Dewitt C. Stevens & Warren Norton.
8	Shannahan, John & Jas., O. P. Fay & Archd. Hays, .....		3,002	Royal White & D. McCarthy.

# *ABSTRACT of propositions for Sections on the Western sub-division.*

No. of proposition as canvassed.	NAMES OF BIDDERS.		Sec. 192.	Sec. 193.	Sec. 195.	Sec. 197.	Sec. 199.	NAMES OF GUARANTY.
	Engineer's estimates.							
E. S. D.	6	Androus, Samuel, Jacob G. Wiley,	\$42,632	\$34,195	\$37,356	\$28,979	\$42,709	Adam Passage, George Passage.
	7	Bredshaw, Hamilton B.,	24,063	33,845	30,060	25,425	.....	J. Knickerbocker.
	9	Breed, Charles R., Harvey C. Beach,	27,131	37,892	29,600	28,678	34,906	D. E. Havens, J. H. Bryant.
	27	Bell, Samuel, E. T. Ward, Wm. S. Bell,	20,869	31,414	29,140	26,660	30,079	Edson Bishop, S. W. Budlong.
	26	Baldwin, William,	19,771	28,355	28,914	23,265	29,914	H. P. Mills, T. G. Mills.
	53	Breed, Joseph, Chas. Nichols, Hiram Brintnall,	20,926	28,809	26,695	.....	30,604	Hamilton White.
	57	Bogardus, W. A. H.,	23,101	28,115	28,760	23,180	.....	.....
	10	Clark, Albert C.,	.....	30,468	.....	.....	31,022	S. N. Brett, Jas. A. Hovey.
	19	Cole, Enos, Barney Becker, Francis Newkirk,	29,106	42,614	36,010	32,770	39,466	Merritt Clark, B. H. Marks.
	25	Carmichael, B. E. O. S. Chapman,	23,752	33,376	26,330	23,805	33,335	Thomas R. Horton, Wm. Clark Cornelius Phillips.
	33	Compton, Jonas W.,	20,654	30,637	25,690	23,700	28,663	James Otis.
	39	Clary, William, Charles Smith,	30,072	37,780	31,212	23,985	34,249	Edson Bishop, Ebenezer Munson.
	40	Candee, Wm., P. R. Reed, Benj. Ashby, Henry D.	23,761	35,322	29,800	27,390	34,469	Powell, Ramsdale & Co.
	E. S. D.	30	Denison, Joseph A. Scoville, Jason Candee,	.....	.....	29,052	23,656	30,044
24		De Graw, C. J., Henry De Graw,	16,165	21,453	20,350	16,770	22,131	R. C. Kenyon, H. H. Coats.
44		Ennis, Robert,	19,133	28,725	25,394	19,966	28,943	Joseph M. Denmon, D. Chapman.
18		Ennis, Elijah, John A. Dodge,	.....	.....	.....	.....	35,043	W. F. Nottingham, E. F. Comstock.
36		Frazee, Chester W.,	.....	.....	.....	.....	27,367	Benj. Frazee, Albert Briggs, Orrin Clark.
56		Fauling, John,	20,928	26,814	20,435	19,295	32,902	Samuel Dill.
37		Gere, R. Nelson & Co.,	24,549	34,518	27,736	25,912	35,291	George Stevens, Robert Gere.
3		Hubbard, Oliver C.,	20,006	30,524	27,689	22,787	.....	W. W. Wright, James H. Mallory.
5		Hague, Andrew, Wm. Peters,	26,745	36,147	33,550	28,150	25,491	Henry Evans, John Peters.
22		Hart, Samuel,	18,452	27,537	26,750	20,735	28,581	C. C. Middleder.
20		Hart, Marshall, F. E. Allen,	.....	.....	.....	.....	.....	Samuel Hart.
43		Haman, William,	22,324	31,763	24,406	21,759	.....	Saml. A. Hatfield, Gald'r Woolson, J. H. Seymour.
54		Hart, A. P., Saml. Avery, Jas. Barnes, Noah Palmer,	20,422	30,498	25,296	21,951	26,513	Daniel Denison.
61		Hatfield, Samuel, A. Gardner Woolson,	19,947	30,482	.....	.....	.....	J. H. Seymour, Horace Wheaton.
E. S. D.	36	Jacobs, S. P., C. C. Smith, Wm. Waldron, D. Brett,	21,501	29,769	24,794	22,361	27,073	S. N. Brett, James A. Hovey.
	47	Kason, Joseph M., Abram Reynolds,	.....	.....	.....	.....	27,766	Giles Ross, Frederick Pratt.
	23	Lester, Moses W., Stephen M. Stokes,	.....	.....	.....	.....	29,333	C. W. Pomeroy, Thomas Y. Howe, jun.,
	2	Midler, Columbus C., N. Chase, Josiah Brintnall, P.	21,962	31,710	25,210	25,785	.....	.....
	P. Midler, Lyman J. Midler,	.....	.....	.....	.....	.....	.....	.....
	2	McGowan, Wm., R. Lee, Patrick Rehen,	19,742	27,460	27,505	22,580	30,899	Samuel Hart.
E. S. D.	26	Marshall, John H., John M. Ferrill,	36,158	48,993	36,880	36,650	46,402	Giles Ross, Bertrand Ross, Anw. Myers, J. Myers.
	.....	.....	.....	.....	.....	.....	.....	.....

82 McDonald, Angus P.,	27,884	35,219	30,860	28,900	35,833	Edward P. Cowles.
84 McCartney, Hugh, Eden Bishop,	21,682	30,871	26,845	21,900	27,631	Elijah Miller.
88 McDonald, James,	22,845	30,671	24,673	23,170	32,642	Thurlow Weed.
46 McQuigg, Daniel,	.....	.....	.....	21,395	.....	D. B. Smith, Aaron Quinby.
75 Mills, Theodore G. Peter Dunn,	21,260	30,515	26,920	23,465	27,659	Henry Swan, Robert Powers, Hiram Brintnall.
16 Nichols, John H.,	27,824	38,219	30,860	28,900	35,833	.....
18 Peck, L. Jones,	36,459	43,107	28,640	27,760	40,397	Horace Peck, Joseph Pratt.
67 Pratt, Fred., R. C. Hatch, John Ecker, E. S. Payne,	.....	.....	.....	.....	.....	.....
41 Rosebrook, Emery,	20,441	29,506	26,728	22,920	.....	C. A. Wheaton, Horace White.
55 Richmond, Van R., Zebulon Moore, A. B. Williams,	24,297	33,260	34,360	28,495	38,538	David Thomas, J. P. Howell.
12 Soper, Horace U.,	.....	.....	.....	24,775	.....	Miles S. Leach, D. Chapman.
32 Sutherland, A. G. G. Higgins, A. Cook, G. C. Gere,	20,035	28,610	34,268	21,645	27,498	S. C. Holden, G. W. Allen.
do do	20,947	32,237	.....	.....	.....	Samuel Hart, Hiram Brintnall.
27 Thompson, James, William J. Nelson,	20,316	28,683	23,620	20,910	26,779	Harvey E. Nelson, Reuben Willett.
23 Van Der Karr, Leonard, Patrick Lavin,	28,159	36,248	31,340	26,455	37,697	Thomas Van Der Karr, Robert Powers.
42 Woolson, Gardner,	.....	.....	28,670	.....	28,908	Samuel A. Hatfield, J. H. Seymour, H. Wheaton.
68 Woodworth, Samuel,	23,701	36,544	28,080	31,780	33,201	W. W. Woodworth, M. D. Hollister.
60 Leach, Edwin B., Albert B. Leach,	.....	.....	.....	23,090	.....	Joseph M. Demmon, James Rogers.

# PROPOSALS—(CONTINUED.)

No. of proposition as canvassed.	NAMES OF BIDDERS.		NAMES OF GUARANTY.			
	Engineers' estimate,	Sec. 203.	Sec. 204.	Sec. 205.	Sec. 206.	
	.....	\$137,038	\$97,927	\$18,465	\$18,479	
7	Bredshaw, Hamilton B.,.....	123,025	106,606	20,727	20,859	J. Knickerbocker.
27	Bell, Samuel, E. T. Ward, Wm. S. Bell,.....	104,397	.....	14,709	16,707	Edson Bishop, S. W. Budlong.
31	Bell, Samuel, Ansel Bescom, E. T. Ward,.....	.....	83,429	.....	.....	Edson Bishop, S. W. Budlong.
1	Barry, Michael, Bernard McGraw, Patrick J. Barry,.....	113,560	88,676	17,486	16,647	Michael Barry, Bernard McGraw, P. J. Barry.
36	Baldwin, William,.....	121,700	83,209	15,962	17,273	H. P. Mills, T. G. Mills.
53	Breed, Joseph, Charles Nichols, Hiram Brintnall,.....	117,180	67,116	14,864	15,606	Hamilton White.
68	Barker, William, Cephas C. Barker,.....	113,795	84,226	14,807	15,688	J. W. Barker, L. W. Conkey.
76	Brayton, Thomas R., Wm. W. Morris,.....	183,286	140,187	22,984	24,681	.....
10	Clark, Albert C.,.....	96,775	86,851	17,387	22,618	Merritt Clark, B. H. Marks.
14	Clark, Stephen, Edward Learned, jun.,.....	129,835	96,951	.....	.....	.....
19	Cole, Enos, Barney Becker, Francis Newkirk,.....	147,300	112,263	18,696	18,755	Thomas R. Horton, William Clark, Cornelius Phillips.
23	Carmichael, B. F., O. S. Chapman,.....	131,740	100,771	.....	.....	James Otis.
29	Collins, James, Charles Collins,.....	133,613	101,617	19,854	19,629	William Beard, James Frill.
33	Compton, Jonas W.,.....	125,570	88,422	17,989	16,870	Edson Bishop, Ebenezer Munson.
39	Cleary, William, Charles Smith,.....	119,730	108,355	25,652	22,299	Powell, Ramsdale & Co.
40	Candee, William, P. R. Reed, Benj. Ashby, Henry D. Denison, Joseph A. Scoville, Jason Candee,.....	129,640	82,427	16,316	16,149	Daniel Denison, Samuel Hart.
50	Colwell, Warren, Chas. Roberts, Amos Shanty,.....	82,518	72,018	.....	.....	D. S. Manners, William Taylor, Wm. Schwardlow.
63	Cummings & Wallack,.....	126,102	103,820	21,616	.....	James N. Wells, H. Campbell.
71	Candee, Horace, Nelson Williams,.....	111,267	87,082	16,375	.....	William Candee, Samuel Hart.
8	De Graw, C. J., Henry De Graw,.....	63,960	47,619	10,049	10,435	R. C. Kenyon, H. H. Coats.
13	Dimmick, Levi, Samuel Weed, Edwin Eldridge,.....	151,600	91,895	21,064	21,461	E. B. Smith, H. E. Storrs.
49	De Wolf, Delos, Otis B. Howe,.....	123,842	89,066	.....	.....	David Mannerling.
70	Docter, Nicholas W.,.....	123,210	95,487	19,901	20,171	Hugh McClelland.
24	Emm, Robert,.....	84,960	66,689	14,657	15,468	Joseph M. Dennison, D. Chapman.
18	Frazer, Chester W.,.....	98,985	88,217	15,490	14,915	Benj. Frazer, Albert Briggs, Orrin Clark.
59	Frazer, Benjamin, Philip Ostrander,.....	105,295	76,870	17,930	.....	John A. Frazer, Chas. Vrooman, De Witt O. Stevens,
17	Gray, John J.,.....	117,190	81,739	15,953	16,428	John J. Schuyler Charles Devendorf.
37	Gere, R. Nelson & Co.,.....	113,223	98,351	15,444	18,818	George Stevens, Robert Gere.
5	Hague, Andrew, Wm. Peters,.....	64,565	54,985	14,802	15,608	Henry Evans, John Peters.
22	Hart, Samuel,.....	.....	.....	18,817	14,693	C. C. Midler.
48	Hatfield, Samuel A.,.....	.....	.....	14,661	16,461	Gardner Woolson, J. H. Seymour, Horace Wheaton.
61	Howe, George,.....	.....	.....	.....	.....	Wm. H. Howe, S. J. Secors.
64	Hart, A. P. Saml. Avery, Jas. Barnes, Noah Palmer,.....	95,866	87,203	15,473	16,146	Daniel Denison.

61	Hedfield, Samuel A., Gardner Woolson, .....	99, 637	66, 263	.....	J. H. Beymow, Horace Wheaton.
62	Haggarty, John, James Denison, .....	116, 563	128, 026	18, 511	.....
63	Jacobs, S. P., C. C. Smith, Wm. Waldron, D. Brett, .....	105, 325	75, 736	13, 965	S. N. Brett, James A. Hovey.
23	Leater, Moses W., Stephen M. Stokes, .....	111, 983	76, 871	13, 409	C. W. Pomeroy, Thos. Y. Howe, jun.
31	Learned, Chas. G., G. Y. Learned, Abbt. E. Learned, .....	.....	96, 616	.....	W. A. Cheever, Edward Learned.
2	Miller, Columbus C., N. Chase, Josiah Brintnall, P. .....	111, 405	98, 887	18, 971	Samuel Hart.
2	McGown, Wm., R. Lee, Patrick Rehen, .....	.....	96, 550	26, 444	19, 063 Giles Ross, Bertrand Rose, A. Myers, J. Myers.
15	Mathews, J. B., J. W. Mathews, D. E. Mathews, .....	118, 925	84, 966	.....	William H. Herrick, Thomas B. Simons.
26	Martindale, John H., John M. Ferrill, .....	104, 635	83, 467	20, 203	20, 260 Orrville Clark.
32	McDonald, Angus P., .....	116, 605	101, 041	21, 403	21, 519 Edward P. Cowles.
34	McCartney, Hugh, Edson Bishop, .....	114, 242	86, 598	13, 223	14, 497 Elijah Miller.
38	McDonald, James, .....	121, 040	87, 804	19, 233	17, 209 Thurlow Weed.
76	Mills, Theodore G., Peter Dunn, .....	81, 982	68, 163	15, 703	15, 718 Henry Swan, Robert Powers, Hiram Brintnall.
16	Nichols, John H., .....	116, 605	101, 041	21, 403	21, 519 Benjamin Frazee, Charles Vrooman.
72	Norris, Archibald R., .....	95, 042	91, 015	15, 661	13, 573 Horace Peck, Joseph Pratt.
18	Peck, L. Jones, .....	105, 061	97, 229	22, 569	19, 345
67	Pratt, Fred. R. C. Hatch, John Ecker, E. S. Payne, John, .....	.....	.....	.....	.....
1	L. Dix, .....	132, 130	82, 505	14, 631	15, 888 C. A. Wheaton, Horace White.
74	Pape, David, J. Carrier, Egbert Jackson, G. Everson, .....	119, 169	88, 333	16, 102	16, 122 J. W. Bostwick, James Judson and others.
55	Richmond, Van R., Zebulon Moore, A. B. Williams, .....	135, 810	96, 208	17, 521	16, 804 Miles S. Leach, D. Chapman.
58	Reynolds, Nathan, Samuel Donaldson, A. B. Barkley, .....	.....	.....	14, 533	Edward Dodd.
4	Smith, George, .....	119, 222	102, 478	19, 150	.....
12	Super, Horace U., .....	56, 888	59, 860	14, 705	A. B. Dickinson, T. M. Nivin.
32	Sutherland, Anson, George G. Huggins, Albert Cook, .....	139, 940	119, 892	12, 929	14, 740 S. C. Holden, G. W. Allen.
21	Sturtevant, John A., J. Fremyre, H. Pardee, G. Bell, .....	131, 100	79, 178	.....	Samuel Hart, Hiram Brintnall.
43	Sackett, W. A., Franklin Gage, W. Knox, E. S. Lathan, .....	121, 840	82, 123	16, 180	John Sanford, D. Wright.
52	Sankey, W. T. J., .....	153, 778	84, 968	.....	S. G. Hadley, Edward Mynduse.
64	Sage, C. H., A. T. Dunham, .....	.....	.....	.....	James Ashfield, Francis B. Pinola.
65	Storrs, Hiram & Co., (see canvases of eastern division,) .....	137, 065	87, 524	18, 543	19, 602 John B. Chollar, B. H. Sage.
17	Thompson, James, William J. Nelson, .....	56, 150	56, 452	14, 251	18, 432 (See canvases of eastern division for guaranty.)
73	Van Der Karr, Leonard, Patrick Larive, .....	77, 723	78, 597	22, 268	14, 592 Harvey E. Nelson, Reuben Willett.
22	Wright, Wm. W., .....	118, 283	87, 701	16, 377	13, 773 Thomas Van Der Karr, Robert Powers.
30	Webster, Jas. R., Nehemiah Shannon, E. Rosebrook, .....	133, 896	101, 101	16, 736	.....
60	Leach, Edwin B., Albert B. Leach, .....	89, 197	17, 044	.....	James H. Sherrill, John A. Sherrill.
					17, 205 Simeon Draper, Wm. H. Benton.
					17, 284 Joseph M. Denmon, James Rogers.

*ABSTRACT of propositions for Culverts on Western sub-division.*

No. of proposition as canvassed.	NAMES OF BIDDERS.	SECTION 188.			Sec. 190.	SECTION 191.			NAME OF GUARANTY.
		Arch at sta- tion 22.	Composite at station 74.	Aggregate of section 189.		Arch at sta- tion 143.	Composite at station 175.	Arch at sta- tion 232.	
	Estimate of engineers,.....	\$1,744	\$1,654	\$3,399	\$1,709	\$1,296	\$1,744	\$3,040	
7	Androus, Samuel, Jacob G. Wiley,.....					\$1,296	\$1,511	\$2,806	Adam Passage, George Passage.
18	Breed, Joseph, Charles Nichols, H. Brinsmail,.....	\$1,937	\$1,850	\$3,677	\$1,828	1,436	1,828	3,264	Hamilton White.
19	Bruen, Timothy,.....	1,593	1,463	3,076	1,493	1,187	1,494	2,681	Benjamin France, Albert Briggs, Orrin Clark.
4	Hatfield, Samuel A., Gardner Woolson,.....	1,610	1,657	3,267	1,532	1,208	1,533	2,741	J. H. Seymour, Horace Wheaton.
16	Jacobs, S. P., C. C. Smith, W. Waldron, &c.,.....					1,267	1,450	2,747	S. N. Brett, James A. Hovey.
12	Kasson, Joseph M., Arthur Lewis,.....					1,476	1,619	3,095	C. A. Wheaton.
2	Rosebrook, Emory,.....	1,501	1,741	3,243	1,378	1,371	1,396	2,697	David Thomas, J. P. Howell.
20	Van Der Kaat, Leonard, Patrick Levin,.....	1,873	2,050	3,923	1,874	1,568	1,874	3,442	Robert Powers, Thomas Van Der Kaat.
14	Woodworth, Samuel,.....	2,889	2,713	5,104	2,291	2,063	2,776	4,838	W. W. Woodworth, M. D. Hollister.

**PROPOSALS—(CONTINUED.)**

No. of proposition as announced.		NAMES OF BIDDERS.					SECTION 201.				Sec. 204.	Sec. 205.	NAMES OF GUARANTY.	
		Estimate of engineers.....	Sec. 192.	Sec. 197.	SECTION 201.			Aggregate of	Composite at	Composite at	Composite at	Composite at		
			Station 306.	Arch at sta- tion 692 1/2.	Arch at sta- tion 997.	Arch at sta- tion 1,029.	Arch at sta- tion 201.							
7		Andrews, Samuel, Jacob G. Wiley.....	\$1,769	\$2,168	\$1,734	\$1,734	\$3,469		\$1,117	1	359		Adam Passage, George Passage.	
8		Bell, Samuel, Erie P. Ward, William B. Bell,	\$1,740	\$1,761	.....	.....	.....		\$1,099		\$1,351		Edson Bishop, S. W. Badlong.	
9		Rabecek, Oliver, 2d.....	.....	2,907	2,480	2,481	4,961		.....		.....		Samuel Woodworth.	
10		Broed, Joseph, Charles Nichols, H. Brintnall.	.....	2,206	1,896	1,896	3,772		.....		.....		Hamilton White.	
11		Bruen, Timothy.....	1,697	1,787	.....	.....	.....		1,290	1,414	1,414	1,414	Benjamin Frazer, Albert Briggs, Orrin Clark.	
12		Compton, Jonas W.,.....	2,082	2,139	1,978	2,075	4,053		1,484	1,626	1,626	1,626	Edson Bishop, Ebenezer Munson.	
13		Collins, James, Charles Collins,.....	.....	.....	.....	.....	.....		1,447	1,692	1,692	1,692	William Beard, James Frill.	
14		Colwell, Warren, Chas. Roberts, A. Shaunle,	.....	.....	.....	.....	.....		.....	.....	.....	.....	D. S. Mannars, Wm. Taylor, Wm. Schardlon.	
15		Diannick, Levi, Samuel Weed, E. Eldridge,	.....	.....	.....	.....	.....		1,905	2,276	2,276	2,276	E. B. Smith, H. E. Storrs.	
16		Hatfield, Samuel A., Gardner Woolson,.....	1,981	1,878	1,577	1,869	3,146		1,270	1,517	1,517	1,517	J. H. Seymour, Horace Wheaton.	
17		Hurd, Norman, Nicholas Morgan,.....	.....	.....	1,662	1,642	3,304		.....	.....	.....	.....	Chancey C. Smith, Delos Brett.	
18		Jacobs, S. P., C. C. Smith, W. Waldron, &.,	1,835	1,806	1,654	1,654	3,308		1,412	1,578	1,578	1,578	S. N. Brett, James A. Hovey.	
19		Kason, Joseph M., Arthur Lewis,.....	2,200	1,960	1,768	1,760	3,528		.....	.....	.....	.....	C. A. Wheaton, Thomas Y. Howe, Jr.	
20		Leister, Moses W., Stephen M. Stokes,	2,122	2,887	1,603	1,681	3,284		1,178	1,405	1,405	1,405	C. W. Pomery, Thomas Y. Howe, Jr.	
21		Loach, Edwin B., Albert B. Leach,	.....	1,917	.....	.....	.....		1,312	1,593	1,593	1,593	Jas. Rogers, J. M. Deason, M. S. Leach.	
22		McCartney, Hugh, Edson Bishop.....	1,702	1,693	1,432	1,532	3,064		1,267	1,473	1,473	1,473	N. G. Ransom.	
23		Raebrook, Emory.....	1,942	1,606	1,417	1,382	2,760		1,487	1,672	1,672	1,672	David Thomas, J. P. Howell.	
24		Sackett, Wm. A., F. Gage, Wm. Knox, &.,	.....	.....	.....	.....	.....		1,078	1,300	1,300	1,300	S. G. Hadley, Edward Mynderse.	
25		Van Der Karr, Leonard, Parlois Levin,	2,257	2,314	1,946	1,946	3,890		1,644	1,979	1,979	1,979	Robert Powers, Thomas Van Der Karr.	
26		Woodworth, Samuel,.....	3,182	.....	.....	.....	.....		.....	.....	.....	.....	W. W. Woodworth, M. D. Hollister.	



# *ABSTRACT of Propositions for Bridge Abutments—Western Sub-Division.*

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[ASSEMBLY

No. of prop- osition.	NAMES OF BIDDERS.		Sec. 189	Sec. 192	Sec. 194	Sec. 197	Sec. 198	NAMES OF GUARANTY.
	Engineers' estimate,	1 Farm.	1 Farm.	1 Farm.	3 Road.	1 Road.		
	Engineers' estimate,	\$1,317	\$1,315	\$1,317	\$7,317	\$2,093		
6	Andrews, Samuel, Jacob G. Wiley,	1,323	1,514	1,323	6,707	1,932	Adam Passage, Geo. Passage.	
14	Birchard, Backus, Amos Birby, Nelson A. Gurney,	1,323	1,323	1,323	6,586	2,227	Constant Cook.	
16	Brown, R. H.,	1,394	1,595	1,395	7,527	2,108	Erra Mallett, Peter Tracy.	
23	Breed, Joseph, Charles Nichols, Hiram Brinmali,	1,394	1,394	1,394	7,117	2,300	Hamilton White.	
1	Compson, Jonas W.,	1,694	1,694	1,694	8,162	2,300	Ebenezer Munson.	
20	Davidson, John,	1,324	1,324	1,324	6,579	1,619	Thomas J. Richman, Joseph Willing.	
22	Decker, N. H., John B. Mathews,	1,371	1,371	1,371	7,545	2,035	Hugh McClelland.	
13	Gere, R. Nelson, C. W. Stevens,	1,294	1,294	1,294	6,587	1,953	George Stevens, Robert Gere.	
2	Jacobs, S. P., C. C. Smith, Wm. Waldron, D. Brett,	1,294	1,294	1,294	6,127	1,956	S. N. Brett, James A. Hovey.	
4	Kasson, Joseph M., Arthur Lewis,	1,588	1,588	1,588	7,983	2,360	Orson Towsley, Wm. Griffin, Jr.	
17	Lee, John B. Seranus Britton, J. Vernam,	1,588	1,588	1,588	7,632	2,434	Archibald A. Dunlap, W. H. Cheerer.	
23	Learned, E., C. G. Learned, G. V. & A. E. Learned,	1,835	1,835	1,835	7,253	1,752	N. G. Ransom.	
3	Martindale, John H., John M. Ferrill,	1,168	1,168	1,168	6,994	1,945	Horace Peck, Joseph Pratt.	
9	McCartney, Hugh, Edson Bishop,	1,633	1,633	1,633	6,675	1,930	David Thomas, J. P. Howell.	
21	McQuigg, Daniel, John C. Foster,	1,250	1,250	1,250	6,723	1,930	Edwin Eldridge, Samuel Weed.	
12	Peck, L. Jones,	1,337	1,337	1,337	5,744	1,631	Royal White, D. McCarthy.	
5	Roadbrook, Emery,	1,187	1,187	1,187	5,405	2,000	Thomas Van Der Karr, Patrick Lavlin.	
11	Richardson, Phineas, J. Richardson, James Roy,	1,313	1,313	1,313	6,808			
18	Storrs, Pellett, Purdy, White, Smith, Pratt, Shaw,	1,337	1,337	1,337	5,405			
20	Shanahan, J., Jas. Shanahan, O. P. Fay, and A. Hays,	1,187	1,187	1,187	5,405			
19	Van Der Karr, Leonard, Patrick Lavlin,	1,456	1,456	1,456	6,908			

## PROPOSALS—(CONTINUED.)

No of propositi'n.	Section 200.				Sec. 201 3 Road & change.	Sec. 204 Road and change.	NAMES OF GUARANTY.
	I Road.	I Farm.	Aggregate of Sec. 200.				
Engineers' estimate, .....	\$2,093	\$1,317	\$3,410	\$7,774	\$1,586		
7 Bogardus, W. A. H., .....	2,293	3,761	3,761	.....	.....	S. N. Brett, James A. Hovey.	
14 Birchard Backus, Amos Bixby, Nelson A. Gurney, ..	1,932	1,323	3,255	7,061	1,249	Constant Cook.	
16 Brown, R. H., .....	2,227	1,646	3,293	8,067	1,566	Erra Mallett, Peter Tracy.	
24 Breed, Joseph, Charles Nichols, Hiram Brintnall, ..	1,815	1,394	3,209	6,539	1,476	Hamilton White.	
1 Compson, Joseph W., .....	2,385	1,618	4,003	8,773	1,661	Ebenezer Munson.	
8 Clifford John, Sherman Stevens, .....	.....	.....	.....	.....	1,303	Charles E. Clarke.	
10 Colwell, Warren, Charles Roberts, Amos Shautz, ..	.....	.....	.....	.....	1,937	D. S. Manners, Wm. Taylor, Wm. Schardlon.	
75 Dummick, Levi Samuel Weed, Edwin Eldridge, ..	.....	.....	.....	.....	1,600	E. B. Smith, Hiram E. Storrs.	
20 Davidson, John, .....	1,648	1,165	2,813	5,983	1,154	Thomas L. Richman, Joseph Willing.	
22 Decker, N. H., John B. Mathews, .....	2,035	1,325	3,360	7,224	1,446	Hugh McClelland.	
13 Gere, R. Nelson, C. W. Steves, .....	1,953	1,371	3,324	7,069	1,376	George Stevens, Robert Gere.	
2 Jacobs, S. P., C. C. Smith, Wm. Waldron, D. Brett, ..	1,627	1,235	2,862	6,942	.....	S. N. Brett, James A. Hovey.	
4 Kasson, Joseph M., Arthur Lewis, .....	1,761	1,236	2,997	6,265	.....	Charles A. Wheaton.	
17 Lee, John E., Scranus Britton, J. Vernon, .....	2,361	1,598	3,949	8,560	1,652	Orson Towseley, Wm. Griffith, Jr.	
23 Learned, E., C. G. Learned, G. Y. & A. E. Learned, ..	2,434	1,846	4,270	8,143	1,780	Archibald A. Dunlap, W. H. Cheever.	
3 Martindale, John H., John M. Ferrill, .....	2,147	1,499	3,646	7,760	1,009	Orville Clark.	
9 McCartney, Hugh, Edison Bishop, .....	1,752	1,276	3,026	6,414	.....	N. G. Ransom.	
21 Mc Quigg, Daniel, John C. Foster, .....	1,615	1,168	2,783	5,910	1,125	D. B. Smith, Aaron Quinby,	
12 Peck, L. Jones, .....	1,941	1,635	3,579	7,176	1,356	Horace Peck, Joseph Pratt.	
6 Rosebrook, Emery, .....	2,021	1,315	3,336	7,150	1,388	David Thomas, J. P. Howell.	
11 Richardson, Phineas, John Richardson, James Ray, ..	1,930	1,283	3,213	7,226	1,436	.....	
18 Storrs, Pellett, Parry, White, Smith, Pratt & Shaw, ..	1,690	1,337	3,017	6,164	1,176	Edwin Eldridge, Samuel Weed.	
25 Shannan, John & James, O. P. Fay, & J. Hayes, ..	1,630	1,167	2,818	.....	1,213	Royal White, D. McCarthy.	
19 Van Der Karr, Leonard, Patrick Lavlin, .....	2,000	1,486	3,486	7,303	1,417	Thomas Van Der Karr, Patrick Lavlin.	

# *ABSTRACT of propositions for Locks on the Oswego canal.*

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[ASSEMBLY

NAMES OF BIDDERS.										LIFT LOCKS.										NAMES OF GUARANTY.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
No. of proposition as called.	Engineer's estimate.	No. 1.	No. 2.	No. 3.	No. 6.	No. 7.	No. 11.	No. 12.	No. 13.	No. 1.	No. 2.	No. 3.	No. 6.	No. 7.	No. 11.	No. 12.	No. 13.	No. 1.	No. 2.	No. 3.	No. 6.	No. 7.	No. 11.	No. 12.	No. 13.	No. 1.	No. 2.	No. 3.	No. 6.	No. 7.	No. 11.	No. 12.	No. 13.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
23	Brownson, Albert,.....	\$37,402	\$36,598	\$38,986	\$27,060	\$20,577	\$56,152	\$40,640	\$36,795	23	32,681	\$36,562	\$27,073	\$27,360	\$33,722	\$39,641	\$36,565	P. Rathbun and John Brower.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
25	Bull, Ashley H.,.....	34,185	32,980	34,501	26,814	26,882	31,720	40,331	36,212	25	30,989	34,501	26,814	26,882	31,720	\$39,641	\$36,565	C. A. Bur and S. S. Ball.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
41	Britton, J. W. & Edward Swain,.....	37,014	36,625	36,808	26,814	26,882	34,230	40,331	36,212	41	36,625	36,808	26,814	26,882	34,230	40,331	36,212	Alfred Dell and Samuel Swain.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
43	Burchard, B., A. Bixby & N. Gurney,.....	38,578	41,674	45,139	28,079	28,070	36,078	43,007	38,081	43	37,940	40,618	28,079	28,070	36,078	43,007	38,081	W. Clark, T. R. Horton & W. Kingsbury.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
47	Becker, B., E. Cole & S. R. Heights,.....	37,853	37,940	40,618	26,338	26,860	31,949	39,929	34,461	47	37,940	40,618	26,338	26,860	31,949	39,929	34,461	David Uley and John Morris.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
50	Borden, Joseph & W. H. Bennett,.....	31,459	33,459	34,721	24,013	23,068	28,717	36,360	33,658	50	33,459	34,721	24,013	23,068	28,717	36,360	33,658	H. P. Mills and T. G. Mills.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
59	Baldwin, William,.....	33,610	31,583	33,721	28,185	28,335	36,101	45,212	40,100	59	36,534	38,509	28,185	28,335	36,101	45,212	40,100	J. W. Barker and J. W. Conkey.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
63	Barker, William,.....	34,755	36,534	38,509	30,410	31,852	37,505	44,597	38,935	63	38,509	39,660	40,185	38,763	62,707	60,454	47,452	J. Knickerbocker.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
75	Bradshaw, H. B.,.....	39,646	39,660	40,185	38,821	38,763	62,707	60,454	46,024	75	68,005	61,882	38,821	38,763	62,707	60,454	46,024	J. Benton and Samuel Douglass.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
80	Ball, John P. & Wm. M. Hill,.....	64,854	68,005	61,882	31,890	33,302	41,640	52,546	46,024	80	45,818	45,818	47,532	31,899	41,640	52,546	46,024	A. S. Diven and Sam. G. Hathaway, jr.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
83	Brayton, T. R. & Wm. W. Morris,.....	44,044	45,818	47,532	31,899	33,302	41,640	52,546	46,024	83	44,044	45,818	47,532	31,899	41,640	52,546	46,024	Dan H. Eaton and C. C. Bradley.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
8	Bangs, R. H. & Frederick Pratt, Jr.,.....	36,814	34,895	39,235	28,464	27,923	37,566	43,770	41,881	8	41,981	41,816	45,939	28,464	27,923	37,566	43,770	W. D. Herrick and J. W. Jones.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
12	Cady, Joel,.....	41,981	41,816	45,939	28,464	27,923	37,566	43,770	41,881	12	42,965	42,147	40,377	28,464	27,923	37,566	43,770	Lewis Birdsell.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
35	Cruger, Wm. H. & Alex. Anderson,.....	42,965	42,147	40,377	28,464	27,923	37,566	43,770	41,881	35	34,868	33,899	37,719	26,297	26,624	33,643	39,848	J. S. T. Straubman.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
53	Case, C. G. & J. W. Baker,.....	34,868	33,899	37,719	26,297	26,624	33,643	39,848	34,896	53	27,506	30,023	29,923	25,627	27,539	33,170	38,235	Daniel Denison and Samuel Hart.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
71	Candee, Wm., P. R. Reed, B. Ashby, &c.,.....	27,506	30,023	29,923	25,627	27,539	33,170	38,235	33,868	71	35,797	36,315	36,576	25,627	27,539	33,170	38,235	G. Brayton, H. Brayton and D. Uley.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
56	Cronwell, A. E.,.....	33,797	36,315	36,576	25,627	27,539	33,170	38,235	33,868	56	Case, S. F., M. L. Lee & A. M. Farwell,.....	32,118	33,093	37,796	26,278	27,044	33,212	40,128	35,670	E. Farwell and C. E. Case.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
81	Case, S. F., M. L. Lee & A. M. Farwell,.....	32,118	33,093	37,796	26,278	27,044	33,212	40,128	35,670	81	Coleman, Wm., J. N. Comstock, &c.,.....	46,922	45,610	45,623	31,744	32,642	44,563	50,606	48,436	Matthew S. Vetch.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
29	Coleman, Wm., J. N. Comstock, &c.,.....	46,922	45,610	45,623	31,744	32,642	44,563	50,606	48,436	29	Downer, E., Thos. Earll & James Barnes,.....	31,439	30,237	33,366	19,920	21,846	28,085	32,116	23,176	Joseph Breed & Austin Myers.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
30	Downer, E., Thos. Earll & James Barnes,.....	31,439	30,237	33,366	19,920	21,846	28,085	32,116	23,176	30	De Graw, C. J., & Henry,.....	25,956	26,637	28,804	19,920	21,846	28,085	32,116	23,176	R. C. Keyon & H. H. Coals.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
30	De Graw, C. J., & Henry,.....	25,956	26,637	28,804	19,920	21,846	28,085	32,116	23,176	30	Dickinson, A. B.,.....	29,073	30,569	30,423	23,394	23,609	29,786	35,834	32,753	George Dawson.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
30	Dickinson, A. B.,.....	29,073	30,569	30,423	23,394	23,609	29,786	35,834	32,753	30	Dunn, Peter,.....	32,484	32,838	34,838	23,394	23,609	29,786	35,834	32,753	H. Swain, H. Trimbull and R. Powers.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
42	Dunn, Peter,.....	32,484	32,838	34,838	23,394	23,609	29,786	35,834	32,753	42	Donaldson, Samuel & Edmund Streever,.....	39,670	39,944	41,136	23,394	23,609	29,786	35,834	32,753	David Uley.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
52	Donaldson, Samuel & Edmund Streever,.....	39,670	39,944	41,136	23,394	23,609	29,786	35,834	32,753	52	Delano, N. & J. G. Lund,.....	33,710	32,284	34,491	27,744	28,335	34,600	41,287	36,078	Alanson Sumner.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
53	Delano, N. & J. G. Lund,.....	33,710	32,284	34,491	27,744	28,335	34,600	41,287	36,078	53	Dodge, Jno. A. & Benj. E. Comstock,.....	36,286	36,026	39,737	27,744	28,335	34,600	41,287	36,078	Edwin E. Morgan and Henry Morgan.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
64	Dodge, Jno. A. & Benj. E. Comstock,.....	36,286	36,026	39,737	27,744	28,335	34,600	41,287	36,078	64	Estabrook, T. D., T. N. Chebro & H. H. Fish,.....	33,419	34,672	38,167	25,507	25,205	32,201	38,026	31,182	C. G. Case and J. W. Baker.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
72	Estabrook, T. D., T. N. Chebro & H. H. Fish,.....	33,419	34,672	38,167	25,507	25,205	32,201	38,026	31,182	72	Frazer, Benj. & Warren Norton,.....	34,960	31,236	34,436	25,097	25,097	33,090	39,731	35,351	John O. Frazer and Archibald Hoss.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
26	Frazer, Benj. & Warren Norton,.....	34,960	31,236	34,436	25,097	25,097	33,090	39,731	35,351	26	Feltine, Cornelius,.....	33,476	33,943	34,781	25,097	25,097	33,090	39,731	35,351	Nicholas A. Schuyler.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
46	Feltine, Cornelius,.....	33,476	33,943	34,781	25,097	25,097	33,090	39,731	35,351	46	Gore, Robert & Co.,.....	33,476	33,943	34,781	25,097	25,097	33,090	39,731	35,351	George Stevens and H. Roades.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
14	Gore, Robert & Co.,.....	33,476	33,943	34,781	25,097	25,097	33,090	39,731	35,351	14	Hart, A. P., James Barnes, S. Avery, &c.,.....	33,476	33,943	34,781	25,097	25,097	33,090	39,731	35,351	Oliver Breed and Daniel Denison.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
19	Hart, A. P., James Barnes, S. Avery, &c.,.....	33,476	33,943	34,781	25,097	25,097	33,090	39,731	35,351	19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														



## PROPOSALS—(CONTINUED.)

No. of proposal as can be seen.	NAMES OF BIDDERS.	LIFT LOCKS.										NAMES OF GUARANTY.
		No. 1.	No. 2.	No. 3.	No. 6.	No. 7.	No. 11.	No. 12.	No. 13.			
	Engineer's estimate,.....	\$37,492	\$36,598	\$38,986	\$27,969	\$29,577	\$36,152	\$40,649	\$35,795			
16	Wall, John,.....				\$31,317					C. B. Wall and G. H. Northrop.		
47	Wood, A. D. & Ambrose Clark,.....	\$43,263	\$41,451	\$41,847	28,255	\$29,754	\$37,639	\$49,421	\$44,800	J. B. Danforth and L. H. Pratt.		
50	White, W. C., E. Pratt, H. E. Storrs, E. Shaw, E. B. Smith & N. Pellett,.....	41,422	41,258	40,039	27,612	28,063	35,447	44,318	40,279	Edwin Eldridge and Samuel Weed.		
74	Woodworth, Samuel,.....	45,426	44,120	40,604	28,863	30,039	37,538	44,501	41,495	W. W. Woodworth and M. D. Holleston.		
77	Wright, Wm. W.,.....	47,593	48,987	52,305	.....	31,965	44,261	56,856	47,111	Homer Ramsdell and David Moore.		

## PROPOSALS—(CONTINUED.)

NAMES OF BIDDERS.		LIFT LOCKS.				GUARD LOCKS.				NAMES OF GUARANTY.	
	Engineer's estimate,	No. 14.	No. 15.	No. 17.	No. 1.	No. 2.	No. 3.	No. 5.			
17	Andrews, T. F.,	\$36,362	\$23,435	\$27,800	\$20,101	\$23,283	\$21,045	\$20,026	A. E. Cronwell.		
51	Ames, Cheney & A. E. Cronwell,		\$27,855	\$27,800					Stephen Bentley.		
23	Brown, Albert,		30,611	31,993					P. Rathbun & J. Brower.		
25	Bull, Ashley H.,	\$35,424	28,346	29,710	\$19,478	\$20,538			C. A. Burr & S. S. Ball.		
41	Britton, J. W. & Edward Swain,		36,397	29,250	31,855	21,448	22,611		Alfred Bell & Samuel Swain.		
49	Becker, B., E. Cole & S. R. Heights,		38,857	28,051	31,364				W. Clark, T. R. Horton & W. Kingsbury.		
57	Borden, Joseph & W. H. Bennett,		35,998	28,104	27,537	18,470			D. Utley & John Morris.		
60	Baldwin, William,		31,501	25,394	25,899	21,343	22,411		H. P. Mills & T. G. Mills.		
68	Backer, William,		39,739	32,644	32,739				J. W. Barker & L. W. Conkey.		
75	Bradshaw, H. B.,		39,203	31,401	32,728	28,391	25,244		J. Knickerbocker.		
78	Budd, John P. & Wm. M. Hill,		56,856	42,771	47,145	30,922	33,728		J. Bouton & S. Douglas.		
80	Brayton, T. E. & Wm. W. Morris,		46,643	36,342	37,422				A. S. Divent & S. G. Hathaway Jr.		
12	Cruger, Wm. H. & Alex. Anderson,		39,924	34,430	38,745				Lewis Birdsell.		
7	Card, Henry & T. E. Buchanan,			26,041					E. Snell, W. H. Williams & Henry Root.		
35	Case, C. G. & J. W. Baker,		36,303	27,133	31,959	19,923	22,123		J. S. T. Stranahan.		
71	Cronwell, A. E.,		32,881			22,602	25,016		G. Brayton, H. Brayton & David Utley.		
56	Case, S. F., M. L. Lee & A. M. Farwell,		36,072	27,071	32,074	23,499	25,407		E. Farwell & C. E. Case.		
81	Coleman, Wm., J. N. Comstock, & Co.,		44,900	37,985	39,312				Matthew S. Vetch.		
29	DeGra, C. J. & Henry,		29,409	23,951	24,383	17,656	19,132		R. C. Kenyon & H. H. Coats.		
42	Dunn, Peter,		31,892	24,250	26,801	21,067	22,126		W. H. Swain, H. Brintall & Robert Powers.		
72	Fababrock, T. D., T. N. Cheebro & H. Fish,		36,933	29,071	34,921	21,314	23,178		C. G. Case & J. W. Baker.		
66	Filkins, Cornelius,		33,996	24,577	28,651	19,532	19,934		Nicholas A. Schuyler.		
74	Gere, Robert & Co.,		37,007	28,167	29,394	20,873	22,693		George Stevens & H. Rhoads.		
19	Hart, A. P., J. Barnes, S. Avery & N. Palmer,					19,106	21,847		Oliver Breed & Daniel Denison.		
22	Ingraham, Jonas,		41,278	29,942	35,176	23,200	24,778		W. H. Scott & Milton Morey.		
82	Jones, Samuel, Jas. Fonton & W. M. Roberts,		56,669	38,914					S. Jones, J. Fenton & W. M. Roberts.		
31	Kimball, Wm. & Arthur Lewis,		34,691	27,256					Charles A. Wheaton.		
59	Kasson, J. M. & George Lewis,					19,868	23,149		W. N. Keayon & G. P. Kenyon.		
42	Kenyon, R. O.,		35,981	27,550		19,640	21,600		S. M. Keayon & C. H. Sabin.		
33	Loomis, Willard,		37,669	32,776		20,194	21,907		W. H. Read, C. H. Sabin & H. H. Coats.		
2	McGowan, T., Wm. Lee & Patrick Rehill,		63,489	49,876	54,670	18,112	20,911		G. & B. Ross and A. & J. Myers.		
						37,138	41,024				



## PROPOSALS.—(Continued.)

No. of proposal as carried.	NAMES OF BIDDERS.		LIFT LOCKS.				GUARD LOCKS.				NAMES OF GUARANTY.	
	No. 14.	No. 15.	No. 17.	No. 1.	No. 2.	No. 3.	No. 5.	No. 1.	No. 2.	No. 3.	No. 5.	
	Engineer's estimate,.....	\$26,362	\$28,455	\$30,840	\$20,101	\$23,285	\$21,045	\$20,026				
18	Myers, Austin & William Johnson,.....	41,032	33,955	.....	\$17,379	\$19,561	\$18,698	\$17,346				T. F. Davis & H. N. Van Buren.
28	McDonald, James,.....	33,804	23,821	\$25,658	.....	22,701	24,670	.....				Thurlow Weed.
63	McDonald, A. P.,.....	39,630	30,534	33,260	22,701	25,879	.....	.....				Edward P. Cowles.
79	Mallory, James H.,.....	47,330	35,941	39,979	27,533	29,951	32,576	29,472				Homer Ramsdell & David Moore.
26	Nichols, Charles, H. Brintnall, & Joseph Breed,.....	37,346	27,226	25,871	21,026	21,037	22,240	20,411				Ham. White.
70	Niven, A. H.,.....	45,247	34,975	37,939	25,896	28,589	27,148	25,351				P. P. Pratt & J. J. Harmon.
73	Nichols, John H.,.....	38,646	30,869	32,533	22,621	24,828	.....	22,186				John F. Rathbone.
40	Nelson, Julius M.,.....	.....	28,355	.....	.....	.....	.....	.....				William Baldwin & H. P. Mills.
48	Peck, L. J.,.....	36,554	26,556	31,706	20,090	22,175	20,884	19,507				Horace Peck & Joseph Pratt.
69	Parmelee, S. & H., H. White & G. Anthony,.....	41,540	31,741	35,894	.....	.....	.....	.....				James G. Porter & George W. Davis.
4	Rodgers, David,.....	33,595	26,884	29,582	.....	.....	.....	.....				Samuel Voorhees & D. J. Martin.
1	Sharp, John L. & N. J. Taft,.....	.....	.....	.....	20,798	22,704	21,383	.....				S. N. Kenyon & George F. Sharp.
5	Stewart, James,.....	34,713	28,197	30,830	21,761	23,890	22,888	21,252				S. Belding Jr. & A. Sheldon.
20	Scott, Wm. H.,.....	40,328	28,991	34,236	22,705	24,261	22,777	22,206				James Brewer.
58	Stevens, Philo,.....	32,252	25,906	26,288	21,768	23,539	22,327	21,327				Moses P. Hatch.
24	Shanahan, John & James, O. P. Fay & A. Hays,.....	31,291	24,164	24,070	18,074	20,210	19,640	17,199				Royal White & D. McCarthy.
44	Sage, A. G., M. E. Ludington & Co.,.....	32,056	24,733	26,043	.....	.....	.....	.....				John B. Chollar & Benjamin H. Sage.
65	Shannon, N.,.....	38,362	28,559	30,824	.....	.....	.....	.....				David Thomas & J. P. Howell.
67	Schuyler, A.,.....	30,996	22,917	31,809	19,300	20,619	19,851	18,944				Nicholas Schuyler.
76	Stevens, C. W. & Co.,.....	31,091	25,748	28,393	19,467	23,249	21,973	20,249				George Stevens & Robert Gere.
11	Smith, John C.,.....	42,788	35,852	33,645	.....	.....	.....	.....				Benjamin Frazer and Selah Smith.
43	Sage, C. H., M. E. Ludington & A. T. Dunham,.....	.....	.....	.....	19,804	22,506	21,077	19,776				L. McChesney and Royal Ball.
61	Tibbals, Seth J.,.....	34,861	27,435	29,016	.....	.....	.....	.....				A. M. Nelson & Elliot Harroune.
27	Van Wagener, Frederick & Anson Torry,.....	35,357	28,977	30,162	.....	.....	.....	.....				J. E. Dutton & A. C. Livingston.
9	Williams, Wm. H. & Wm. J. Butler,.....	30,895	27,729	.....	.....	.....	.....	.....				Enoch Snell & Jaly Butler.
16	Wall, John,.....	.....	.....	.....	23,399	.....	.....	.....				C. B. Wall & G. H. Northrop.
47	Wood, A. D. & Ambrose Clark,.....	45,503	33,340	37,426	25,320	28,648	29,708	26,062				J. B. Danforth & L. H. Pratt.
50	White, W. C., E. Pratt, H. E. Storrs, &c.,.....	39,286	32,579	35,519	.....	.....	.....	.....				Edwin Eldridge & Sam'l Weed.
74	Woodworth, Samuel,.....	40,292	33,997	34,362	.....	.....	.....	.....				W. W. Woodworth & M. D. Hollister.
77	Wright, Wm. W.,.....	47,543	36,199	40,262	27,300	29,285	31,775	.....				Homer Ramsdell & David Moore.

## ABSTRACT OF PROPOSITIONS FOR SECTION No. 38.

No. of Prop.	NAMES OF BIDDERS.	Am't of Bid.	NAMES OF GUARANTY.
	Engineers' Estimate, .....	\$46,596	
8	Ames, Cheeney, and A E Cromwell, .....	42,275	Stephen Bentley.
3	Baldwin, Wm., .....	46,520	H. P. Mills and T. G. Mills.
9	Bronson, A., .....	37,005	P Rathbun and John Brower.
12	Bradshaw, H B . .....	42,395	J Knickerbacker.
20	Ball, Ashley H. ....	43,035	C. A. Burr and S S Ball.
4	Case, C G, and J W Baker, .....	51,310	J S T Stranahan.
17	Case, Samuel F, M L Lee, and A M Farwell, ...	58,060	E Farwell and C E Case.
23	De Graw, C J and Henry, .....	21,860	R C Kenyon and H H Coats.
2	Kenyon, R C, .....	44,250	S N Kenyon and G. P. Kenyon.
5	Loomis, Willard, .....	40,329	Walter Reed, C H Sabin, and H H Coats.
6	McDonald, A P, .....	42,635	Edward P. Cowles.
15	Mallory, James H., .....	70,325	Homer Ramsdell and David Moore.
1	Norris, A R, .....	42,710	Benj. Frazee and Charles Vroman.
10	Nichols, John H., .....	39,995	John N. Rathbone.
11	Nelson, J M, .....	44,465	Wm. Baldwin and H. P. Mills.
13	Norton, Warren, .....	49,290	A. D. Barber and A. Hess.
7	Peck, L J., .....	48,580	Horace Peck and Joseph Pratt.
16	Peck, E W, and Charles Sherrill, .....	48,675	W. J. Stevens and E. Palmer.



## PROPOSALS.—(CONTINUED.)

NAMES OF BIDDERS.	LIFT LOCKS.				GUARD LOCKS.				NAMES OF GUARANTY.
	No. 14.	No. 15.	No. 17.	No. 1.	No. 2.	No. 3.	No. 5.		
Asstn & William Johnson,.....	\$26,362	\$28,455	\$30,840	\$20,101	\$23,285	\$21,045	\$20,026	T. E. Davis & H. N. Van Buren.	
Ed. James,.....	41,032	33,955	25,558	17,579	19,561	18,998	\$17,346	Thurlow Weed.	
Ed. A. P.,.....	33,804	23,821	33,260	22,701	25,879	24,670	.....	Edward P. Cowles.	
James H.,.....	39,630	30,854	39,079	27,533	29,051	29,576	29,472	Homer Ramsdell & David Moore.	
Charles, H. Bruntall, & Joseph Breed,	47,330	35,941	25,871	21,020	21,097	27,148	25,351	Ham. White.	
A. H.,.....	36,446	27,226	37,939	25,898	28,589	27,148	22,351	P. P. Pratt & Judson Harmon.	
John H.,.....	45,247	34,075	37,939	25,898	28,589	27,148	22,351	John F. Rathbone.	
John M.,.....	38,646	30,869	32,553	22,621	24,828	24,944	22,186	William Baldwin & H. P. Mills.	
W. & H., H. White & G. Anthony,	36,534	26,556	31,706	20,090	22,175	20,884	19,507	Horace Peck & Joseph Pratt.	
John L. & S. J. Taft,	41,540	31,741	35,804	20,798	22,704	21,363	21,232	James G. Porter & George W. Davis.	
James,	32,595	26,884	29,582	20,798	22,704	21,363	21,232	Samuel Voorhees & D. J. M. Martin.	
John H.,.....	34,713	28,197	30,830	21,761	23,890	22,808	21,232	S. N. Kenyon & George F. Sharp.	
Philby,	40,328	28,991	34,236	22,705	24,261	22,777	22,206	James Brewer.	
John & James O. P. Pay & A. Hays,	32,252	25,906	26,288	21,768	23,539	22,327	21,327	Moses P. Hatch.	
J. M. E. Leighton & Co.,.....	31,291	22,164	24,070	18,074	20,210	19,640	17,199	Royal White & D. McCarthy.	
N.,.....	32,056	24,733	26,043	.....	.....	.....	.....	John B. Chollar & Benjamin H. Sage.	
A.,.....	38,362	28,559	30,824	.....	.....	.....	.....	David Thomas & J. P. Howell.	
W. & Co.,.....	30,996	22,917	31,809	19,300	20,619	19,851	18,944	Nicholas Schuyler.	
Benjamin Frazer and Robert Smith,	31,091	25,748	28,393	19,467	23,249	21,973	20,249	George Stevens & Robert Gere.	
Benjamin Frazer and Robert Smith,	42,788	35,852	33,645	.....	.....	.....	.....	Benjamin Frazer and Selah Smith.	
H. M. E. Leighton & A. T. Dunham,	.....	.....	19,804	22,506	21,077	19,776	19,776	L. McChesney and Royal Ball.	
St. J.,.....	34,861	27,435	29,016	.....	.....	.....	.....	A. M. Nelson & Elliot Harroune.	
George, Frederick & Anson Terry,.....	35,357	28,977	30,162	.....	.....	.....	.....	J. E. Dutton & A. C. Livingston.	
Wm. H. & Wm. J. Butler,	30,895	27,729	.....	.....	.....	.....	.....	Enoch Snell & Jaby Butler.	
D. & Ambrose Clark,.....	.....	23,399	.....	.....	.....	.....	.....	C. B. Wall & G. H. Northrop.	
C. E. Pratt, H. E. Storrs, & Co.,.....	45,503	33,340	37,428	25,320	28,548	26,708	25,092	J. B. Danforth & L. H. Pratt.	
Samuel,	39,286	32,579	33,519	.....	.....	.....	.....	Edwin Eldridge & Sam'l Weed.	
W.,.....	40,292	33,997	34,362	.....	.....	.....	.....	W. W. Woodworth & M. D. Hollister.	
W.,.....	47,543	36,799	40,262	27,300	29,285	31,775	.....	Homer Ramsdell & David Moore.	

## ABSTRACT OF PROPOSITIONS FOR SECTION No. 38.

NAMES OF BIDDERS.		NAMES OF GUARANTY.	
Am't of Bid.			
\$46,596			
A E Cromwell, .....	42,275	Stephen Bentley.	
.....	46,520	H. P. Mills and T. G. Mills.	
.....	37,005	P Rathbun and John Brower.	
.....	42,395	J Knickerbacker.	
.....	43,035	C. A. Burr and S S Ball.	
.....	51,310	J S T Stranahan.	
.....	58,060	E Farwell and C E Case.	
.....	21,860	R C Kenyon and H H Coats.	
.....	44,250	S N Kenyon and G. P. Kenyon.	
.....	40,329	Walter Reed, C H Sabin, and H H Coats.	
.....	42,635	Edward P. Cowles.	
.....	70,325	Homer Ramsdell and David Moore.	
.....	42,710	Benj. Frazee and Charles Vroman.	
.....	39,995	John N. Rathbone.	
.....	41,465	Wm. Baldwin and H. P. Mills.	
.....	40,000	A. D. Barber and A. Hess.	
.....	48,480	Horace Peck and Joseph Pratt.	
.....	48,673	W. J. Stevens and E. Palmer.	

# PROPOSALS—(CONTINUED.)

No. of prop.	NAMES OF BIDDERS.	Am't of bid.	NAMES OF GUARANTY.
	Engineers' estimate,.....	\$46,596	
14	Sage, C H, M E Luddington, and A T Dunham.	47,725	L McChesney and Royal Ball.
18	Stevens, Philo, .....	44,315	Moses P. Hatch.
21	Smith, John C, .....	48,875	Benj. Frazee and Selah Smith.
22	Sharp, John L, and N J Taft,.....	36,795	S N Kenyon and Geo. F Sharp.
19	Tibbals, S J, .....	45,190	A M Nelson and Elliott Harroune.
25	Van Wagener, Frederick, and Anson Terry,.....	43,710	J E Dutton and A C Livingston.
24	Williams, W. H.,.....	44,485	Enoch Snell and W J. Butler.

## ABSTRACT OF PROPOSITIONS FOR VALVE GATES.

No. of prop.	NAMES OF BIDDERS.	Am't of bid.		NAMES OF GUARANTY.
	Engineers' estimate,.....		\$8,350	
6	Bradley, C C & Co., .....	6,880		Vivus W Smith.
1	Dunham, A. T., B H Sage, and J B Chollar, ....	5,561		M. Witbeck and E H St. John.
5	McGill, John, jr.,.....	6,109		James Roy and A. Dunlap.
9	Pruyn, R H, and G. Davidson, .....	7,776		C B Lansing and W W Frothingham.
4	Seymour, Erri, and Sandford Adams, .....	7,855		David Utley.
7	Seymour, John F., and George W. Wood, .....	7,871		H Seymour and T C Clark.
2	Wheaton, Charles A., .....	5,563		J M Kasson.



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WESTERN DIVISION.

BIDS FOR WORK,

LET AT ALBANY, NOVEMBER 18<sup>TH</sup>, 1861.

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## ENLARGEMENT OF THE ERIE CANAL—WESTERN DIVISION.

*Bids on section work from 207 to 315 inclusive, received at letting, Nov. 18, 1851.*

No. of proposition.	NAMES OF BIDDERS.		No. 207.	No. 208.	No. 209.	No. 270.	No. 211.
	Engineers' estimates,	.....	\$114,924	\$28,600	\$28,220	\$30,456	\$29,764
31	Angell, B. F.,	.....	93,039	29,630	30,263	32,687	33,864
672	Akenhead, T. & Co.,	.....	103,749	23,157	23,685	26,240	29,113
79	Burrell, T.,	.....	97,080	26,622	27,403	30,376	30,929
474	Britton, J. W.,	.....	99,871	25,276	26,413	27,840	29,195
1,207	Barker, W. & Co.,	.....	95,589	.....	.....	.....	.....
1,177	Bull, S. & S. S.,	.....	88,615	.....	.....	.....	.....
1,194.	Brayton & Morris,	.....	159,856	41,490	42,795	48,310	46,023
1,023	Barry, M. & Co.,	.....	145,724	29,566	29,965	32,971	32,136
770	Bradshaw, H. B.,	.....	88,413	25,191	25,357	26,901	28,515
995	Bell, S.,	.....	138,984	.....	.....	.....	.....
1,201	Barker, C. C., & Co.,	.....	.....	26,385	29,709	30,747	28,667
952	Barber, D. R. & Co.,	.....	.....	.....	27,892	30,471	30,064
364	Clark, & Co.,	.....	102,507	25,655	26,425	29,422	30,063
321	Chamberlain, C. T. & Co.,	.....	77,388	25,014	25,677	27,561	29,326
867	Candee, W. & Co.,	.....	84,654	22,386	22,943	24,757	25,482
832	Carmichael, B. F. & Co.,	.....	99,267	29,166	.....	.....	.....
370	Clark, J. W.,	.....	105,210	24,028	23,725	25,611	26,935
647	Cady, H. & Co.,	.....	124,750	23,326	23,348	25,537	23,575
796	Church, R.,	.....	103,172	26,825	26,482	27,484	29,277
641	Cochrane, J. & Co.,	.....	100,573	.....	.....	.....	.....
1,180	Compson, J. W.,	.....	110,542	23,877	24,188	25,566	27,686



## BIDS ON SECTION WORK--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 207.	No. 208.	No. 209.	No. 210.	No. 211.
	Engineers' estimate.	\$174,924	\$28,600	\$28,220	\$30,456	\$29,764
1,051	Church, W. S., .....	103,453	25,293	25,859	28,443	30,378
1,026	Candee, D. & Co., .....	71,873	21,851	23,351	25,614	24,145
192	Clark, P. W., .....	106,605	24,057	24,360	26,291	27,135
670	Caswell, N. B., .....	103,398	25,095	24,656	28,466	27,463
284	Clark, E., .....	106,622	24,648	24,945	27,109	28,162
1,241	Clary, W. & Co., .....	95,150	30,753	30,709	34,977	34,777
1,027	Coleman, W. & Co., .....	81,311	26,007	26,541	.....	.....
888	Decker, N. H., .....	97,467	27,595	28,070	30,336	31,718
910	Dodge, J. A. & Co., .....	95,106	21,196	22,158	23,491	25,731
200	Demmon, J. M., .....	108,388	28,949	29,292	26,074	28,310
1,035	De Graw, C. J. & H., .....	55,472	.....	.....	.....	.....
408	Ellicott & Bently, .....	90,682	25,994	26,772	29,434	30,186
422	Ennis, R., .....	105,653	24,425	24,925	26,784	27,920
1,224	Everett, G. C. & Co., .....	.....	.....	.....	33,524	31,699
1,051	Failing, J., .....	.....	23,266	25,543	27,733	27,499
46	Grant, L. A. G. B., .....	97,765	26,622	27,403	30,376	30,929
255	Goodrich, J. W., .....	102,493	22,876	22,786	23,674	23,806
256	Howell, R. R. & Co., .....	104,789	25,564	25,722	27,626	28,898
1,088	Houghtaling, A., .....	111,866	25,326	22,623	25,920	23,280
693	Hart & Spear, .....	129,971	32,928	34,774	.....	.....
1,006	Hawley, A., .....	85,462	37,655	28,260	29,956	32,482
144	Havens, J., .....	107,958	25,387	26,190	28,551	24,589

679	Hall & Andrews, .....	.....	25,614	26,078	28,994	25,473
846	Jones, S. & Co., ...	101,399	25,614	26,078	28,994	29,496
333	Knowles, J., jr., .....	105,723	26,107	25,091	26,283	28,592
1,225	Kingsbury, F. H., .....	.....	.....	25,449	27,182	26,831
376	Leach, J. & Co., .....	101,334	24,065	24,735	25,608	26,600
973	Law, Geo., .....	105,651	26,216	26,642	28,940	30,046
466	Lyman, A., .....	121,541	.....	.....	.....	.....
66	Mirick, J. & Co., .....	88,898	.....	.....	.....	.....
34	Moore, C. H. & Co., .....	116,948	31,766	32,544	35,581	34,415
901	Mills, T. G. & W., .....	77,077	20,448	20,954	26,195	23,636
1,209	McCartney, H. & Co., .....	94,687	21,127	23,835	27,068	27,241
1,102	Mitchell, C., .....	130,000	25,863	26,643	.....	27,260
1,156	Mills & Harwood, .....	83,702	.....	.....	.....	.....
1,061	McGovern, T. & Co., .....	110,556	32,892	33,516	38,610	36,020
458	Miller, J., .....	110,206	26,189	25,040	26,843	26,869
1,048	Matthews, J. B. & Co., .....	105,375	32,075	30,788	33,138	32,342
1,063	Nichols, J. H., .....	89,496	31,350	26,205	27,725	29,203
1,235	Niven, A. H., .....	96,037	27,804	28,594	31,458	34,007
760	Nichols, C. & Co., .....	98,544	24,256	24,550	25,667	26,161
935	Olney & Brill, .....	84,874	26,696	28,480	31,023	31,176
575	Peck, L. J., .....	130,358	36,288	37,064	37,933	37,642
475	Pratt, F. & Co., .....	106,557	.....	.....	.....	.....
1,056	Petty, B., .....	115,207	23,462	22,441	24,052	23,301
704	Price, E. B., .....	115,125	.....	.....	.....	.....
1,215	Page, D., .....	121,519	.....	.....	.....	.....
684	Plumley, G. & Co., .....	.....	.....	18,992	20,643	20,562
641	Rodgers, J. C., .....	113,885	26,449	26,872	27,249	28,249



299|Ward, H. G., .....  
1,184|Webster, J. & Co., .....  
155|Wright, P. D., .....  
687|Williams, A. B. & Co., .....  
1,219|Woolson & Kelts, .....

## BIDS ON SECTION WORK—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	No. 207.	No. 208.	No. 209.	No. 210.	No. 211.
	Engineers' estimates,.....	\$114,924	\$28,600	\$28,220	\$30,456	\$29,764
1,220	Rowell & Kingsbury .....	94,460	.....	.....	.....	.....
637	Rogers & Layton.....	.....	.....	.....	.....	.....
712	Richmond Van R.....	107,305	.....	.....	.....	.....
238	Stage J N.....	105,894	26,801	26,782	.....	.....
195	Spencer U.....	102,702	25,645	26,410	28,417	29,370
768	Sherman B.....	110,700	28,282	29,094	31,498	33,163
794	Sherman J W.....	103,172	25,825	26,482	27,484	29,277
1,208	Sackett W A & Co.....	99,601	.....	.....	.....	.....
1,191	Sloane W M.....	112,120	37,824	38,940	42,737	43,772
643	Snedeker A.....	106,313	26,712	26,480	28,386	29,194
1,247	Storrs H E & Co.....	111,092	29,693	30,409	32,665	34,497
1,223	Stannard & Co.....	.....	21,700	32,546	24,050	.....
558	Turner Otis.....	106,548	30,493	31,496	34,462	34,677
395	Vernam, J. & Co.,.....	102,862	25,811	26,610	28,815	29,795
719	Van Derkarr, L. & Co.,.....	106,497	37,547	37,790	42,222	.....
1,236	Van Slyck, A. & Co.,.....	106,202	21,482	22,052	24,121	24,232
271	Voorhees, W. V. & Co.,.....	.....	24,686	25,630	27,385	27,250
338	Williams, L. & Co.,.....	85,295	18,997	19,381	20,674	19,864
784	Woodworth, S.,.....	112,625	27,449	27,812	28,145	30,731
1,121	Wright, J. T. & Co.,.....	108,172	23,235	25,852	27,484	29,277

299 Ward, H. G. & Co., .....	77,065	24,411	25,327	22,700	28,398
1,184 Webster, J. & Co., .....	240,087	25,819	26,387	29,822	39,017
155 Wright, P. D., .....	122,295	27,870	28,079	32,250	31,318
687 Williams, A. B. & Co., .....	.....	24,488	24,721	28,584	28,745
1,219 Woolson & Keltz, .....	.....	.....	.....	.....	30,067

## BIDS ON SECTION WORK—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	No. 207.	No. 208.	No. 209.	No. 210.	No. 211.
	Engineers' estimates,.....	\$114,924	\$28,600	\$28,220	\$30,456	\$29,764
1,220	Rowell & Kingsbury	94,460	.....	.....	.....	.....
637	Rogers & Layton	.....	.....	.....	.....	.....
712	Richmond Van R.	107,305	.....	.....	.....	.....
238	Stage J N.	105,894	26,801	26,782	.....	.....
195	Spencer U.	102,702	25,645	26,410	28,417	29,370
768	Sherman B.	110,700	28,283	29,094	31,498	33,163
794	Sherman J W.	103,172	25,825	26,482	27,484	29,277
1,208	Sackett W A & Co.	99,601	.....	.....	.....	.....
1,191	Sloane W M.	112,120	37,824	38,940	42,737	43,772
643	Snedeker A.	106,313	26,712	26,480	28,386	29,194
1,247	Storrs H E & Co.	111,692	29,693	30,409	32,665	34,497
1,223	Stannard & Co.	.....	21,700	32,546	24,050	.....
558	Turner Otis	106,548	30,493	31,496	34,462	34,677
395	Vernam, J. & Co.	102,862	25,811	26,610	28,815	29,795
719	Van Derkarr, L. & Co.,	106,497	37,547	37,790	42,222	.....
1,226	Van Slyck, A. & Co.,	106,202	21,482	22,052	24,121	24,232
271	Voorhees, W. V. & Co.,	.....	24,686	25,630	27,385	27,250
338	Williams, L. & Co.,	85,295	18,997	19,381	20,674	19,864
784	Woodworth, S.,	112,625	27,449	27,812	28,145	30,731
1,121	Wright, J. T. & Co.,	103,172	23,225	25,852	27,484	29,277

299	Ward, H. G. & Co.,	77,065	24,411	25,227	22,700	28,398
1,184	Webster, J. & Co.,	240,087	25,819	26,387	29,822	39,017
155	Wright, P. D.,	122,295	27,870	28,079	32,250	31,318
687	Williams, A. B. & Co.,	.....	24,488	24,721	28,584	28,745
1,219	Woolson & Kelts,	.....	.....	.....	.....	30,067



## BIDS ON SECTION WORK—(CONTINUED.)

No. of pro- position.	NAMES OF BIDDERS.	No. 212.		No. 213.		No. 214.		No. 215.	
		\$17,817		\$23,039		\$29,004		\$27,575	
31	Angell, B. F., .....	17,213		25,856		30,922		30,381	
672	Akenhead, T. & Co., .....	.....		22,174		26,846		26,362	
79	Burrell, T., .....	15,989		23,632		27,614		28,778	
414	Britton, J. W. & Co., .....	12,792		22,788		27,624		27,326	
1,271	Barker, C. C. & Co., .....	13,284		22,841		25,866		33,695	
1,194	Brayton & Morris, .....	22,244		17,513		43,552		43,615	
1,023	Barry, M. & Co., .....	13,151		26,467		30,752		29,312	
770	Bradshaw, H. B., .....	15,139		23,136		26,552		26,176	
952	Barton, D. R. & Co., .....	15,734		24,735		27,589		26,066	
170	Beebe, J. L. & Co., .....	.....		20,432		14,360		22,160	
867	Candee, W. & Co., .....	14,439		19,703		22,601		21,662	
370	Clark, J. W., .....	14,170		20,392		23,701		23,188	
647	Cady H. & Co., .....	11,907		24,101		26,827		25,926	
796	Church, R., .....	16,101		21,646		25,368		24,745	
1,180	Compson, W., .....	14,574		23,098		.....		30,075	
1,057	Church, W. S., .....	16,456		22,829		26,264		25,685	
1,026	Candee, D. & Co., .....	12,738		18,781		21,349		22,087	
1,192	Clark, P. W., .....	14,260		20,807		24,031		23,593	
170	Caswell, N. B., .....	14,462		21,630		24,081		24,128	
284	Clarke, E., .....	14,524		21,402		24,927		24,458	
1,241	Cleary, Wm. & Co., .....	18,814		28,117		32,178		30,523	

364	Clark, K. S. & Co.,	.....	.....	27,617	26,870
888	Decker, N. H.,	.....	13,880	28,296	27,804
290	Demmon, J. M.,	.....	15,753	21,532	20,101
910	Dodge, J. A. & Co.,	.....	.....	21,047	20,412
408	Ellicott, J. & Co.,	.....	15,714	26,710	25,843
422	Ennis, R.,	.....	16,126	22,472	22,596
1,224	Everett, G. C. & Co.,	.....	18,799	27,508	26,037
714	Foster, O. & Co.,	.....	.....	24,702	24,066
46	Grant, L. A. G. B.,	.....	15,987	27,614	28,778
255	Goodrich, J. W.,	.....	.....	24,007	23,441
340	Holmes D.,	.....	13,564	21,756	.....
456	Howell, R. R. & Co.,	.....	17,023	25,971	25,512
1,088	Houghtailing, A.,	.....	14,529	21,559	22,473
679	Hall & Andrews,	.....	13,975	.....	.....
1,006	Hawley, N.,	.....	15,086	28,698	28,105
144	Havens, J.,	.....	14,201	22,907	23,246
767	Hart, J. & Co.,	.....	.....	20,637	20,114
1,200	Hart & Palmer,	.....	.....	19,656	20,438
849	Hart, M. & Co.,	.....	.....	19,546	20,484
285	Hackett, S.,	.....	.....	16,547	15,880
846	Jones, S.,	.....	13,264	27,266	25,801
1,225	Kingsbury, F. H.,	.....	15,296	.....	27,135
233	Knowles, J. jun.,	.....	.....	26,672	.....
376	Leach, J. & Co.,	.....	14,490	23,394	22,916
973	Law, Geo.,	.....	13,445	28,213	26,468
637	Layton & Rogers,	.....	15,601	25,768	25,179
34	Moore, C. H. & Co.,	.....	15,116	32,620	31,399

# BIDS ON SECTION WORK—(CONTINUED.)

No. of pro- position.	NAMES OF BIDDERS.	No. 212.	No. 213.	No. 214.	No. 215.
	Engineers' estimate,.....	\$17,817	\$23,039	\$29,004	\$27,575
901	Mills, T. G. & W.,.....	17,462	18,192	20,216	20,085
1,102	Mitchell, C.,.....	14,638	21,163	24,368	22,948
1,061	McGovern, T. & Co.,.....	19,541			
458	Miller, J.,.....	15,329			
121	Marcellus, A.,.....		20,452	23,514	23,550
1,048	Matthews, J. B. & Co.,.....		19,940	22,941	
289	Moore, W. B.,.....		24,863	25,777	26,666
839	Marsh, W. N.,.....		18,024	20,771	
1,156	Mills & Hammond,.....			27,880	26,756
1,068	Nichols, J. H.,.....	16,675		23,590	22,830
760	Nichols, O. & Co.,.....		24,038	27,700	26,845
1,235	Niven, A. H.,.....		20,776	19,710	10,558
935	Olney & Brill,.....	14,832		28,718	
575	Peck, L. J.,.....	14,218	24,209	28,279	27,985
1,056	Pettys, B.,.....	14,075	28,688	33,431	32,388
624	Plumbly, G. & Co.,.....	14,461	18,196	21,563	21,788
704	Price, E. B. & Co.,.....			18,414	18,405
641	Rogers, J. C.,.....	17,795	25,298	26,980	25,894
368	Rogers, J.,.....	14,093	23,633	27,031	26,388
880	Richman, T. & Co.,.....			22,336	23,012
195	Spencer, U.,.....	13,361	19,546	22,117	24,075
			23,152	27,232	28,028

768	Sherman, B., .....	17,866	25,100	28,756	28,050
794	Sherman, J. W., .....	16,101	21,646	25,368	24,746
1,196	Sloane, W. M., .....	20,213	34,778	39,036	37,693
643	Snedaker, A., .....	17,190	26,116	27,080	26,858
1,247	Storrs, A. G. & Co., .....	15,593	26,830	30,247	29,128
1,080	Sutherland, A. & Co., .....	.....	.....	24,960	23,884
558	Turner, Otis, .....	17,343	27,626	31,296	30,124
395	Vernam, J. & Co., .....	12,912	22,976	27,420	26,744
719	Van Der Karr, L. & Co., .....	18,779	33,940	34,619	32,760
271	Voorhies, W., .....	14,702	22,163	25,067	24,528
108	Van Amburgh, J., .....	.....	22,972	27,195	27,236
1,236	Van Slyck, A. & Co., .....	.....	18,788	22,562	21,527
338	Williams, L. & Co., .....	11,607	14,044	15,784	19,400
155	Wright, P. D., .....	15,848	24,660	28,222	26,646
784	Woodworth, S., .....	21,185	22,766	27,020	24,606
1,219	Woolson & Kelts, .....	14,766	22,971	25,127	.....
1,121	Wright, J. T. & Co., .....	16,104	21,646	25,638	24,746
687	Williams, A. B. & Co., .....	15,052	21,601	27,159	24,641
299	Wards, D. & Co., .....	13,853	19,765	23,694	23,083
542	Wagner, D. & Co., .....	.....	.....	.....	26,359

# BIDS ON SECTION WORK—(CONTINUED.)

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ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	No. 216.	No. 217.	No. 218.
		Engineers' estimate,		
		\$42,122	\$46,984	\$62,469
31	Angell, B. F.,.....	42,482	42,607	61,714
672	Akenhead, T. & Co.,.....	37,334	38,508	54,010
464	Akenhead, W. & R.,.....	36,280	39,824	55,762
79	Burrell, T.,.....	41,042	40,980	59,923
474	Britton, J. W. & Co.,.....	40,784	54,268	57,880
1,201	Barker, C. C. & Co.,.....	50,621	.....	84,515
1,194	Brayton & Morris,.....	58,132	54,859	62,876
1,023	Barry, M. & Co.,.....	42,575	46,470	.....
770	Bradshaw, H. B.,.....	38,213	38,790	49,386
952	Barton, D. B. & Co.,.....	40,797	43,439	57,386
170	Beebe, J. L. & Co.,.....	34,719	38,908	47,956
1,207	Barker, W. & Co.,.....	.....	41,796	64,224
1,177	Ball, S. & S. S.,.....	.....	40,476	54,716
364	Clark, S. & Co.,.....	40,064	.....	60,116
867	Candee, W. & Co.,.....	33,067	34,538	47,187
370	Clark, J. W.,.....	34,412	36,326	50,457
647	Cady, H. & Co.,.....	39,071	40,620	55,672
796	Church, R.,.....	39,233	41,045	56,706
1,180	Compson, J. W.,.....	44,958	49,792	63,951
1,057	Church, W. S.,.....	38,746	40,746	55,951
1,026	Candee, D. & Co.,.....	32,030	35,321	43,813

1,22	Clark, P. W., .....	35,370	37,780	51,742
670	Caswell, N. B., .....	35,442	39,688	51,957
284	Clarke, E., .....	36,718	39,254	33,052
1,941	Cleary, W. & Co., .....	44,898	41,356	Two bids.
1,116	Cochrane, J. & Co., .....	48,756	47,832	64,185
631	Coleman, W. & Co., .....	.....	41,148	56,051
1,027	Corbett, M., .....	.....	.....	51,868
1,002	Decker, N. H., .....	41,854	46,049	64,330
888	Dodge, J. A. & Co., .....	32,194	31,683	51,445
910	Demmon, J. M., .....	29,122	.....	.....
209	De Graw, C. J. & H., .....	.....	.....	.....
1,035	Ellicott, J. & Co., .....	38,615	26,338	35,914
408	Ennis, R., .....	33,083	38,737	56,129
422	Everett, G. C. & Co., .....	.....	30,980	45,924
1,224	Foster, C. & Co., .....	.....	.....	56,460
714	Falling, J., .....	34,344	41,318	49,225
1,051	Goodrich, J. W., .....	34,802	38,896	.....
255	Grant, L. A. G. B., .....	34,559	38,869	56,410
46	Howell, R. R. & Co., .....	41,042	40,980	59,923
456	Hart, J. & C., .....	37,677	.....	.....
767	Houghtaling, A., .....	36,267	37,757	42,182
1,088	Hawley, A., .....	31,377	36,143	44,102
1,006	Hackett, S., .....	39,847	40,494	57,863
285	Havens, J., .....	24,179	24,057	34,266
144	Holmes, D., .....	31,969	35,804	48,970
340	Hall & Androus, .....	31,900	34,844	51,747
679	Hart & Palmer, .....	32,510	39,332	.....
1,200	.....	.....	.....	39,325

# BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 216.	No. 217.	No. 218.
	Engineers' estimate,.....	\$42, 122	\$46, 984	\$62, 469
849	Hart, M. & Co.,.....	.....	.....	42, 165
846	Jones, S. & Co.,.....	36, 926	40, 925	56, 870
233	Knowles, J. jun.,.....	37, 195	40, 143	56, 565
39	Keyes & Smith,.....	.....	40, 208	51, 528
376	Leach, J. & Co.,.....	33, 131	42, 140	49, 129
978	Law, G.,.....	39, 675	44, 709	59, 724
437	Layton & Rogers,.....	49, 831	45, 079	58, 307
466	Lyman, A.,.....	42, 334	48, 995	62, 996
499	Lamartin, A. O.,.....	.....	38, 258	51, 736
34	Moore, C. H. & Co.,.....	45, 862	47, 665	65, 809
839	Marsh, W. N.,.....	39, 917	41, 891	56, 818
901	Mills, T. G. & W.,.....	29, 362	36, 591	40, 816
1, 102	Mitchell, C.,.....	34, 234	36, 990	49, 897
1, 156	Mills & Harwood,.....	33, 550	37, 260	45, 478
468	Miller, J.,.....	38, 612	42, 066	56, 116
1, 048	Mathews, J. B. & Co.,.....	38, 698	43, 292	54, 318
1, 209	McCartney, J. & Co.,.....	35, 680	36, 836	51, 509
451	Martindale, J. H. & Co.,.....	.....	45, 221	57, 706
1, 061	McGovern, T. & Co.,.....	.....	43, 724	68, 638
66	Mirick, J. & Co.,.....	.....	.....	42, 859
289	Moore, W. B.,.....	.....	.....	41, 748

1,063	Nichols, J. H.,.....	39,670	38,280	48,324
760	Nichols, C. & Co.,.....	32,356	40,238	49,445
1,189	Nelson, R. & Co.,.....	33,066	35,059	46,480
1,235	Niven, A. H.,.....	.....	46,814	61,660
985	Olney & Brill,.....	.....	37,985	53,356
575	Peck, L. J.,.....	38,452	49,752	65,739
1,056	Pettys, B.,.....	47,320	37,857	43,803
624	Plumbley, G. & Co.,.....	31,943	39,196	39,783
704	Price, E. B. & Co.,.....	27,246	38,033	58,957
1,182	Peacock, J. & S. E.,.....	42,591	35,508	48,011
1,017	Peacock, J. & Co.,.....	34,003	37,296	48,200
880	Richman, T. & Co.,.....	85,475	40,436	56,625
641	Rogers, J. C.,.....	36,269	45,528	58,701
368	Rogers, J.,.....	40,218	40,542	50,930
820	Riley, S. & Co.,.....	33,948	28,746	41,774
665	Richmond, Van R.,.....	29,276	39,112	53,470
195	Spencer, U.,.....	35,233	57,161	54,926
768	Sherman, B.,.....	40,847	46,221	64,024
794	Sherman, J. W.,.....	44,293	44,045	56,706
1,195	Sloane, W. M.,.....	39,233	56,863	78,576
1,680	Sutherland, A. & Co.,.....	54,904	38,301	47,153
643	Snedaker, A.,.....	34,125	44,279	58,178
1,247	Storrs, A. G. & Co.,.....	42,442	40,235	55,579
1,047	Sherrill, J. H. & Co.,.....	43,605	49,961	62,038
558	Turner, Otis,.....	.....	46,809	65,486
395	Vernam, J. & Co.,.....	45,445	44,022	58,540
108	Van Amburgh, J.,.....	39,356	44,613	57,011
		41,600		



## BIDS ON SECTION WORK—(CONTINUED.)

No. of Proposition.	NAMES OF BIDDERS.	No. 216.	No. 217.	No. 318.
	Engineers' estimate,.....	\$42,122	\$46,984	\$62,469
719	Van Der Karr, L. & Co.,.....	48,440	48,216	66,433
271	Voorhies, W.,.....	36,209	40,032	53,972
1,236	Van Slyck, A. & Co.,.....	35,478	36,590	47,196
93	Van Valkenburgh, D. A. & Co.,.....	.....	40,435	56,360
338	Williams, L. & Co.,.....	28,722	31,730	37,311
155	Wright, P. D.,.....	38,947	38,251	55,330
542	Wagner, D. & Co.,.....	39,270	41,093	56,746
784	Woodworth, S.,.....	41,793	42,784	58,105
1,121	Wright, J. T. & Co.,.....	39,235	41,045	56,706
687	Williams, A. B. & Co.,.....	37,178	42,022	56,146
299	Ward, H. D. & Co.,.....	31,455	38,240	51,020
433	Webster, A.,.....	.....	.....	57,093

## BIDS FOR SECTION WORK CONTINUED.

Engineers' estimate,.....	No. of proposition.	NAMES OF BIDDERS.	No. 228.		No. 229. .	
			\$34,382		\$31,369	
672.....		Akenhead, T. & Co.,.....	27,453		23,433	
464.....		Akenhead, W. & R.,.....	29,463		26,268	
79.....		Burrell, T.,.....	33,528		42,332	
474.....		Britton, J. W. & Co.,.....	29,758		26,447	
1,201.....		Barker, C. C. & Co.,.....	30,133		27,080	
770.....		Bradshaw, H. B.,.....	29,036		27,195	
952.....		Barton, D. R. Co.,.....	32,030		28,637	
170.....		Beebe, J. L. & Co.,.....	28,674		25,493	
117.....		Barney, B. G. & Co.,.....	28,926		26,211	
645.....		Barnard, G. W.,.....	30,159		27,570	
867.....		Candee, W. & Co.,.....	28,381		25,627	
370.....		Clark, J. W.,.....	27,645		24,770	
647.....		Cady, H. & Co.,.....	32,549		28,720	
796.....		Church, R.,.....	31,375		27,840	
1,037.....		Church, W. S.,.....	31,378		27,617	
1,626.....		Candee, D. & Co.,.....	26,106		23,177	
192.....		Clark, P. W.,.....	28,575		25,321	
670.....		Caswell, N. B.,.....	29,180		26,515	
284.....		Clarke, E.,.....	29,527		26,465	
631.....		Cochrane, J. & Co.,.....	39,653		.....	
763.....		Coleman, W. & Co.,.....	28,979		26,343	
1,002.....		Corbett, M.,.....	31,148		25,599	

# BIDS ON SECTION WORK—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	No. 216.			No. 217.		No. 318.	
		Engineers' estimate,.....			\$46,984		\$62,469	
719	Van Der Karr, L. & Co.,.....	48,440	48,216	66,433				
271	Voorhies, W.,.....	36,209	40,032	53,972				
1,236	Van Slyck, A. & Co.,.....	35,478	36,590	47,196				
93	Van Valkenburgh, D. A. & Co.,.....	.....	40,435	56,360				
338	Williams, L. & Co.,.....	28,722	31,730	37,311				
155	Wright, P. D.,.....	38,947	38,251	55,330				
542	Wagner, D. & Co.,.....	39,270	41,093	56,746				
784	Woodworth, S.,.....	41,793	42,784	58,105				
1,121	Wright, J. T. & Co.,.....	39,236	41,045	56,706				
687	Williams, A. B. & Co.,.....	37,178	42,022	56,146				
299	Ward, H. D. & Co.,.....	31,455	38,240	51,020				
433	Webster, A.,.....	.....	.....	57,093				

## BIDS FOR SECTION WORK CONTINUED.

Engineers' estimate, No. of proposition.	NAMES OF BIDDERS.	No. 229. .	
		No. 228.	\$31,369
672	Akenhead, T. & Co.,	27,453	23,433
464	Akenhead, W. & R.,	29,463	26,268
79	Burrell, T.,	33,528	42,332
474	Britton, J. W. & Co.,	29,758	26,447
1,201	Barker, C. C. & Co.,	30,133	27,080
770	Bradshaw, H. B.,	29,036	27,195
952	Barton, D. R. Co.,	32,030	28,637
170	Beebe, J. L. & Co.,	28,674	25,493
117	Barney, B. G. & Co.,	28,926	26,211
645	Barnard, G. W.,	30,159	27,570
867	Candee, W. & Co.,	28,381	25,627
370	Clark, J. W.,	27,645	24,770
647	Cady, H. & Co.,	32,549	28,720
796	Church, R.,	31,375	27,840
1,037	Church, W. S.,	31,378	27,617
1,626	Candee, D. & Co.,	26,106	23,177
192	Clark, P. W.,	28,575	25,321
670	Caswell, N. B.,	29,180	26,515
284	Clarke, E.,	29,527	26,465
631	Cochrane, J. & Co.,	39,653	.....
763	Coleman, W. & Co.,	28,979	26,343
1,002	Corbett, M.,	31,148	25,599

# BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 212.	No. 213.	No. 214.	No. 215.
		\$17,817	\$23,039	\$29,004	\$27,575
901	Mills, T. G. & W., .....	17,462	18,192	20,216	20,085
1,102	Mitchell, C., .....	14,638	21,163	24,368	22,948
1,061	McGovern, T. & Co., .....	19,541	.....	.....	.....
458	Miller, J., .....	15,329	20,452	23,514	23,550
121	Marcellus, A., .....	.....	19,940	22,941	.....
1,048	Matthews, J. B. & Co., .....	.....	24,863	25,777	26,666
1,289	Moore, W. B., .....	.....	18,024	20,771	.....
839	Marsh, W. N., .....	.....	.....	27,880	26,756
1,156	Mills & Hammond, .....	.....	.....	23,590	22,830
1,068	Nichols, J. H., .....	16,675	24,038	27,700	26,845
760	Nichols, O. & Co., .....	.....	20,776	19,710	10,558
1,235	Niven, A. H., .....	.....	.....	28,718	.....
935	Olney & Brill, .....	14,832	24,209	28,279	27,985
575	Peck, L. J., .....	14,218	28,688	33,431	32,388
1,056	Petys, B., .....	14,075	18,196	21,663	21,788
624	Plumbley, G. & Co., .....	14,461	.....	18,414	18,405
704	Price, E. B. & Co., .....	.....	25,298	26,980	25,894
641	Rogers, J. C., .....	17,795	23,623	27,031	26,388
268	Rogers, J., .....	14,093	.....	22,336	23,012
880	Richman, T. & Co., .....	.....	19,546	22,117	24,075
195	Spencer, U., .....	13,361	23,152	27,232	28,028

768	Sherman, B., .....	17,866	25,100	28,756	28,050
794	Sherman, J. W., .....	16,101	21,646	25,368	24,746
1,196	Sloane, W. M., .....	20,213	34,778	39,036	37,693
643	Snedaker, A., .....	17,190	26,116	27,080	26,858
1,247	Storrs, A. G. & Co., .....	15,593	26,830	30,247	29,128
1,080	Sutherland, A. & Co., .....	.....	.....	24,960	23,884
558	Turner, Otis, .....	17,343	27,626	31,296	30,124
395	Vernam, J. & Co., .....	12,912	22,976	27,420	26,744
719	Van Der Karr, L. & Co., .....	18,779	33,940	34,619	32,760
271	Voorhies, W., .....	14,702	22,163	25,067	24,528
108	Van Amburgh, J., .....	.....	22,972	27,195	27,236
1,236	Van Slyek, A. & Co., .....	.....	18,788	22,562	21,527
338	Williams, L. & Co., .....	11,607	14,044	15,784	19,400
155	Wright, P. D., .....	15,848	24,660	28,222	26,646
784	Woodworth, S., .....	21,185	22,766	27,020	24,606
1,219	Woolson & Kelts, .....	14,766	22,971	25,127	.....
1,121	Wright, J. T. & Co., .....	16,104	21,646	25,638	24,746
687	Williams, A. B. & Co., .....	15,052	21,601	27,159	24,641
299	Wards, D. & Co., .....	13,853	19,765	23,694	23,083
542	Wagner, D. & Co., .....	.....	.....	.....	26,359

# BIDS ON SECTION WORK—(CONTINUED.)

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ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	No. 216.			No. 217.		No. 218.	
		Engineers' estimate,			\$46,984		\$62,469	
31	Angell, B. F.,	42,482	42,607	61,714				
672	Akenhead, T. & Co.,	37,334	38,508	54,010				
464	Akenhead, W. & R.,	36,280	39,824	55,762				
79	Burrell, T.,	41,042	40,980	59,923				
474	Britton, J. W. & Co.,	40,784	54,268	57,880				
1,201	Barker, C. C. & Co.,	50,621		84,515				
1,194	Brayton & Morris,	58,132		62,876				
1,023	Barry, M. & Co.,	42,575	54,859					
770	Bradshaw, H. B.,	38,213	38,790					
952	Barton, D. B. & Co.,	40,797	43,439	57,386				
170	Beebe, J. L. & Co.,	34,719	38,908	47,956				
1,207	Barker, W. & Co.,		41,796	64,224				
1,177	Ball, S. & S. S.,		40,476	54,716				
364	Clark, S. & Co.,	40,064		60,116				
867	Candee, W. & Co.,	38,067	34,538	47,187				
370	Clark, J. W.,	34,412	36,326	50,457				
647	Cady, H. & Co.,	39,071	40,620	55,672				
796	Church, R.,	39,233	41,045	56,706				
1,180	Compson, J. W.,	44,958	49,792	63,951				
1,057	Church, W. S.,	38,746	40,746	55,951				
1,026	Candee, D. & Co.,	32,030	35,321	48,813				

192	Clark, P. W.,	35,370	37,780	51,742
670	Caswell, N. B.,	35,442	39,688	51,957
284	Clarke, E.,	36,718	39,254	33,052
1,941	Cleary, W. & Co.,	44,898	41,356	Two bids.
631	Cochrane, J. & Co.,	48,756	47,832	64,185
1,027	Coleman, W. & Co.,		41,148	56,051
1,002	Corbett, M.,			51,868
888	Decker, N. H.,	41,854	46,049	64,330
910	Dodge, J. A. & Co.,	32,194	31,683	51,445
209	Demmon, J. M.,	29,122		
1,035	De Graw, C. J. & H.,		26,338	35,914
408	Ellicott, J. & Co.,	38,615	38,737	56,129
422	Ennis, B.,	33,083	30,980	45,924
1,224	Everett, G. C. & Co.,			56,460
714	Foster, C. & Co.,	34,344	41,318	49,225
1,051	Failing, J.,	34,802	38,896	
255	Goodrich, J. W.,	34,559	38,869	56,410
46	Grant, L. A. G. B.,	41,042	40,980	59,923
456	Howell, R. R. & Co.,	37,677		
767	Hart, J. & C.,	36,267	37,757	42,182
1,088	Houghtaling, A.,	31,377	36,143	44,102
1,006	Hawley, A.,	39,847	40,494	57,863
285	Hackett, S.,	24,179	24,057	34,266
144	Havens, J.,	31,969	35,804	48,970
340	Holmes, D.,	31,900	34,844	51,747
679	Hall & Androus,	32,510	39,332	
1,200	Hart & Palmer,			39,325



## BIDS ON SECTION WORK—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	No. 216.			No. 217.		No. 218.	
		\$42,122			\$46,984		\$62,469	
	Engineers' estimate,.....							
849	Hart, M. & Co.,.....							42,165
846	Jones, S. & Co.,.....	36,926			40,925			56,870
233	Knowles, J. jun.,.....	37,195			40,143			55,565
39	Keyes & Smith,.....				40,208			51,528
376	Leach, J. & Co.,.....	33,131			42,140			49,129
973	Law, G.,.....	39,675			44,709			59,734
437	Layton & Rogers,.....	49,831			45,079			58,307
466	Lyman, A.,.....	42,334			48,995			62,996
499	Lamartin, A. O.,.....				38,258			51,736
34	Moore, C. H. & Co.,.....				47,665			65,809
839	Marsh, W. N.,.....	45,862			41,891			56,818
901	Mills, T. G. & W.,.....	29,917			36,591			40,816
1,102	Mitchell, C.,.....	34,234			36,990			49,897
1,156	Mills & Harwood,.....	33,550			37,260			45,478
458	Miller, J.,.....	38,612			42,066			56,116
1,048	Matthews, J. B. & Co.,.....	38,698			43,292			54,318
1,209	McCartney, J. & Co.,.....	35,680			36,836			51,509
451	Martindale, J. H. & Co.,.....				45,221			57,706
1,061	McGovern, T. & Co.,.....				43,724			68,638
66	Mirick, J. & Co.,.....							42,859
239	Moore, W. B.,.....							41,748

1,063	Nichols, J. H.,	39,670	38,280	48,324
760	Nichols, C. & Co.,	32,356	40,238	49,445
1,189	Nelson, R. & Co.,	33,066	35,059	46,480
1,235	Niven, A. H.,	.....	46,814	61,660
935	Olney & Brill,	.....	37,985	53,356
575	Peck, L. J.,	38,452	49,752	65,739
1,056	Pettys, B.,	47,320	37,857	43,803
624	Plumbley, G. & Co.,	31,943	39,196	39,783
704	Price, E. B. & Co.,	27,246	38,033	58,957
1,182	Peacock, J. & S. E.,	42,591	35,508	48,011
1,017	Peacock, J. & Co.,	34,003	37,296	48,200
880	Richman, T. & Co.,	85,475	40,436	56,625
641	Rogers, J. C.,	36,269	45,528	58,701
368	Rogers, J.,	40,218	40,542	50,930
820	Riley, S. & Co.,	33,948	28,746	41,774
665	Richmond, Van R.,	29,276	39,113	53,470
195	Spencer, U.,	35,233	57,161	54,926
768	Sherman, B.,	40,847	46,221	64,024
794	Sherman, J. W.,	44,293	44,045	56,706
1,195	Sloane, W. M.,	39,233	56,863	78,576
1,680	Sutherland, A. & Co.,	54,904	38,301	47,153
643	Snedaker, A.,	34,125	44,279	58,178
1,247	Storrs, A. G. & Co.,	42,442	40,235	55,579
1,047	Sherrill, J. H. & Co.,	43,605	49,961	62,038
558	Turner, Otis,	.....	46,809	65,486
395	Vernam, J. & Co.,	45,445	44,023	58,540
108	Van Amburgh, J.,	39,356	44,613	57,011
		41,600		

# BIDS ON SECTION WORK—(CONTINUED.)

No. of Proposition.	NAMES OF BIDDERS.	No. 216.			No. 217.		No. 318.	
		Engineers' estimate,.....			\$46,984		\$62,469	
719	Van Der Karr, L. & Co.,.....	48,440	48,216	66,433				
271	Voorhies, W.,.....	36,209	40,032	53,972				
1,236	Van Slyck, A. & Co.,.....	35,478	36,590	47,196				
93	Van Valkenburgh, D. A. & Co.,.....	.....	40,435	56,360				
338	Williams, L. & Co.,.....	28,722	31,730	37,311				
155	Wright, P. D.,.....	38,947	38,251	55,330				
542	Wagner, D. & Co.,.....	39,270	41,093	56,746				
784	Woodworth, S.,.....	41,793	42,784	58,105				
1,121	Wright, J. T. & Co.,.....	39,235	41,045	56,706				
687	Williams, A. B. & Co.,.....	37,178	42,022	56,146				
299	Ward, H. D. & Co.,.....	31,455	38,240	51,020				
433	Webster, A.,.....	.....	.....	57,093				

## BIDS FOR SECTION WORK CONTINUED.

No. of proposition. Engineers' estimate,	NAMES OF BIDDERS.	No. 228.		No. 229. .	
		\$34,582		\$31,369	
672.....	Akenhead, T. & Co.,.....	27,453		23,433	
464.....	Akenhead, W. & R.,.....	29,463		26,268	
79.....	Burrell, T.,.....	33,528		42,332	
474.....	Britton, J. W. & Co.,.....	29,758		26,447	
1,201.....	Barker, C. C. & Co.,.....	30,133		27,080	
770.....	Bradshaw, H. B.,.....	29,036		27,195	
952.....	Barton, D. R. Co.,.....	32,030		28,637	
170.....	Beebe, J. L. & Co.,.....	28,674		25,493	
117.....	Barney, B. G. & Co.,.....	28,926		26,211	
645.....	Barnard, G. W.,.....	30,159		27,570	
867.....	Candee, W. & Co.,.....	28,381		25,627	
370.....	Clark, J. W.,.....	27,645		24,770	
647.....	Cady, H. & Co.,.....	32,519		28,720	
796.....	Church, R.,.....	31,375		27,840	
1,037.....	Church, W. S.,.....	31,378		27,617	
1,626.....	Candee, D. & Co.,.....	26,106		23,177	
192.....	Clark, P. W.,.....	28,575		25,321	
670.....	Caswell, N. B.,.....	29,180		26,515	
284.....	Clarke, E.,.....	29,527		26,465	
631.....	Cochrane, J. & Co.,.....	39,653		.....	
763.....	Coleman, W. & Co.,.....	28,979		26,343	
1,002.....	Corbett, M.,.....	31,148		25,599	

## BIDS FOR SECTION WORK—(CONTINUED.)

Engineer's estimate, .....	No. of proposition.	NAMES OF BIDDERS.	No. 228.		No. 229.	
			\$54,582		\$31,369	
910.....		Dodge, J. A. & Co., .....	28,600		25,717	
200.....		Demmon, J. M., .....	27,507		24,851	
1,035.....		De Graw, J. & H., .....	22,566		20,312	
408.....		Ellicott, J. & Co., .....	31,853		28,617	
422.....		Ennis, R., .....	27,636		24,552	
1,224.....		Everett, G. C. & Co., .....	33,082		30,044	
714.....		Foster, Cullen & Co., .....	29,235		26,707	
46.....		Grant, L. A. G. B., .....	33,528		30,182	
255.....		Goodrich, J. W., .....	26,894		24,102	
767.....		Hart J. & C., .....	27,696		24,982	
849.....		Hart, M. & Co., .....	27,552		33,287	
1,006.....		Hawley, A., .....	32,791		29,694	
285.....		Hackett, S., .....	18,948		17,123	
144.....		Havens, J., .....	26,224		23,886	
340.....		Holmes, D., .....	26,643		24,561	
342.....		Hart, J. N., .....	28,616		24,648	
1,200.....		Hart & Palmer, .....	.....		23,168	
233.....		Knowles, J. jr., .....	28,953		26,441	
274.....		Kenyon, D., .....	30,228		26,150	
513.....		Knapp, E., .....	28,473		25,785	
803.....		Kerns, E. & T., .....	27,992			

376	Leach, J. & Co.,	27,583	25,054
973	Law, G.,	33,165	30,477
466	Lyman, A.,	31,232	26,678
495	Lamoreau, A. O.,	28,849	27,084
34	Moore, C. H. & Co.,	39,138	34,778
839	Marsh, W. N.,	36,861	32,250
901	Mills, T. G. & W.,	22,830	20,276
1,156	Mills & Harwood,	26,041	23,063
458	Miller, Isaac,	30,895	27,751
66	Mirick, J. & Co.,	24,700	21,482
289	Moore, W. B.,	26,126	.....
309	Moore, S.,	27,739	25,741
1,063	Nichols, J. H.,	30,369	27,807
1,189	Nelson, R. & Co.,	29,493	23,425
419	Nellis, R. S.,	28,860	27,850
575	Peck, L. J.,	38,895	35,454
624	Plumley, G. & Co.,	20,561	17,565
541	Price, E. B. & Co.,	31,629	28,872
1,182	Peacock, J. & S. E.,	26,995	25,111
1,017	Peacock, J. & Co.,	27,885	26,073
880	Richman, T. & Co.,	31,188	27,755
641	Rogers, J. C.,	32,889	29,239
368	Rogers, J.,	28,558	25,198
594	Riley, L., jr.,	26,993	25,705
195	Spencer, U.,	29,844	26,505
768	Sherman, B.,	35,861	31,500
794	Sherman, J. W.,	31,375	27,840

## BIDS FOR SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 228.	No. 229.
Engineers' estimate, .....	.....	\$34,583	\$31,369
910.....	Dodge, J. A. & Co., .....	28,600	25,717
200.....	Demmon, J. M., .....	27,507	24,851
1,035.....	De Graw, J. & H., .....	22,566	20,312
408.....	Ellicott, J. & Co., .....	31,853	28,617
422.....	Ennis, R., .....	27,636	24,552
1,224.....	Everett, G. C. & Co., .....	33,082	30,044
714.....	Foster, Cullen & Co., .....	29,235	26,707
46.....	Grant, L. A. G. B., .....	33,528	30,182
255.....	Goodrich, J. W., .....	26,894	24,102
767.....	Hart J. & C., .....	27,696	24,982
849.....	Hart, M. & Co., .....	27,552	33,287
1,006.....	Hawley, A., .....	32,791	29,694
285.....	Hackett, S., .....	18,948	17,123
144.....	Havens, J., .....	26,224	23,886
840.....	Holmes, D., .....	26,643	24,561
342.....	Hart, J. N., .....	28,616	24,648
1,200.....	Hart & Palmer, .....	.....	23,168
233.....	Knowles, J. jr., .....	28,953	26,441
274.....	Kenyon, D., .....	30,228	26,150
513.....	Knapp, E., .....	28,472	25,785
803.....	Kerns, E. & T., .....	27,992	

376.....	Leach, J. & Co.,.....	27,583	25,054
973.....	Law, G.,.....	33,165	30,477
466.....	Lyman, A.,.....	31,232	26,678
495.....	Lamoreau, A. O.,.....	28,849	27,084
34.....	Moore, C. H. & Co., .....	39,138	34,778
839.....	Marsh, W. N.,.....	36,861	32,250
901.....	Mills, T. G. & W.,.....	22,830	20,376
1,156.....	Mills & Harwood, .....	26,041	23,063
458.....	Miller, Isaac,.....	30,895	27,751
66.....	Mirick, J. & Co.,.....	24,700	21,482
289.....	Moore, W. B.,.....	26,126	.....
309.....	Moore, S.,.....	27,739	25,741
1,063.....	Nichols, J. H.,.....	30,369	27,807
1,189.....	Nelson, R. & Co.,.....	29,493	23,425
419.....	Nellis, R. S.,.....	28,860	27,850
575.....	Peck, L. J.,.....	38,895	35,454
624.....	Plumley, G. & Co., .....	20,561	17,565
541.....	Price, F. B. & Co., .....	31,629	28,872
1,182.....	Peacock, J. & S. E., .....	26,995	25,111
1,017.....	Peacock, J. & Co.,.....	27,885	26,073
880.....	Richman, T. & Co.,.....	31,188	27,755
641.....	Rogers, J. C.,.....	32,889	29,239
368.....	Rogers, J.,.....	28,558	25,198
594.....	Riley, L., jr.,.....	26,993	25,705
195.....	Spencer, U.,.....	29,844	26,505
768.....	Sherman, B.,.....	35,861	31,500
794.....	Sherman, J. W.,.....	31,375	27,840



## BIDS ON SECTION WORK—(CONTINUED.)

Engineers' estimate,.....	No. of proposition.	NAMES OF BIDDERS.	No. 228.	No. 229.
1,196.....		Sloane, W. M.,.....	46,630	41,866
1,080.....		Sutherland & Co.,.....	25,960	23,340
643.....		Snedaker, A.,.....	29,161	26,282
1,247.....		Storrs, H. E. & Co.,.....	31,890	28,758
558.....		Turner, Otis,.....	38,171	34,156
395.....		Vernam, J. & Co.,.....	33,258	30,122
719.....		Van Der Karr, L. & Co.,.....	23,282	36,556
271.....		Voorhies, W.,.....	29,482	26,294
338.....		Williams, L. & Co.,.....	20,642	19,566
155.....		Wright, P. D.,.....	39,963	27,770
784.....		Woodworth, S.,.....	33,188	28,086
1,121.....		Wright, J. T. & Co.,.....	31,375	27,840
687.....		Williams, A. B. & Co.,.....	29,880	27,234

## BIDS ON SECTION WORK--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.		No. 232.	No. 233.	No. 234.
	Engineers' estimate,				
672	Akenhead, T. & Co.,	22,781	22,311	22,311	39,617
464	Akenhead, W. & R.,	23,332	22,201	22,201	36,161
679	Androus & Hall,		22,416	22,416	36,694
117	Barney, B. G. & Co.,	22,844	21,414	21,414	35,484
79	Burrell, T.,	26,877	24,659	24,659	40,925
170	Beebe, J. L. & Co.,	22,064	20,572	20,572	34,210
474	Britton, J. W. & Co.,	23,677	22,355	22,355	35,492
1,023	Barry, M. & Co.,	27,609	25,988	25,988	42,265
770	Bradshaw, H. B.,	24,202	22,666	22,666	38,552
952	Barton, D. R. & Co.,	26,315	22,877	22,877	38,781
1,201	Barker, C. O. & Co.,		15,955	15,955	46,287
1,177	Ball, S. & S. S.,				37,815
848	Burns, J.,				44,289
867	Candee, W. & Co.,	23,247	21,255	21,255	35,295
647	Cady, H. & Co.,	25,855	26,137	26,137	42,245
370	Clark, J. W.,	22,466	21,125	21,125	35,584
796	Church, R.,	25,513	23,542	23,542	39,881
1,057	Church, W. S.,	24,521	23,693	23,693	39,029
1,026	Candee, D. & Co.,	20,398	18,935	18,935	33,882
1,002	Corbett, M.,	23,813	26,764	26,764	39,517
1,192	Clark, P. W.,	23,035	21,695	21,695	36,145

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 232.	No. 233.	No. 234.
	Engineers' estimate.	\$26,997	\$26,279	\$41,017
284	Clarke, E.,	23,821	22,550	37,822
670	Caswell, N. B.,	23,554	26,635	36,095
763	Coleman, W. & Co.,	24,020	22,820	36,109
364	Clark, S. & Co.,	.....	25,117	40,646
1,024	Colt, H. N.,	.....	26,716	43,250
888	Decker, N. H.,	27,385	25,974	43,253
910	Dodge, J. A. & Co.,	22,638	21,932	34,539
200	Demmon, J. M.,	23,525	22,347	36,090
408	Ellicott, J. & Co.,	26,120	23,676	33,048
422	Ennis, B.,	22,703	20,460	33,842
1,524	Everett, G. C. & Co.,	27,282	26,183	42,927
1,051	Failing, J.,	23,788	22,895	37,650
46	Grant, L. A. G. B.,	26,867	24,709	40,976
255	Goodrich, J. W.,	20,309	19,570	32,956
340	Holmes, D.,	20,181	19,006	36,086
767	Hart, J. & C.,	20,875	19,582	34,725
1,200	Hart & Palmer,	20,910	.....	.....
849	Hart, M. & Co.,	21,205	19,657	36,733
1,006	Hawley, A.,	26,755	24,989	42,560
285	Hackett, S.,	15,598	13,867	22,338
274	Kenyon, D.,	22,453	19,442	32,662

233	Knowles, J. jun., .....	22,950	22,080	38,468
803	Kerns, T. & E., .....	23,777	19,218	41,322
495	Lamareaux, A. O., .....	22,268	21,459	34,352
376	Leach, J. & Co., .....	26,554	24,841	35,853
973	Law, G., .....	24,477	24,786	39,100
466	Lyman, A., .....	31,168	28,364	39,573
34	Moore, C. H. & Co., .....	22,258	21,204	44,681
399	Moore, S., .....	29,367	28,088	34,686
839	Marsh, W. N., .....	19,191	18,201	39,543
901	Mills, T. G. & W., .....	24,712	23,359	29,580
458	Miller, J., .....	21,134	19,926	34,989
289	Moore, W. B., .....	23,309	20,511	34,420
419	Nellis, R. S., .....	24,930	23,324	39,973
1,063	Nichols, J. H., .....	21,981	24,599	38,877
1,189	Nelson, R. & Co., .....	23,622	20,787	38,216
760	Nichols, C. & Co., .....	31,983	28,929	45,777
1,235	Niven, A. H., .....	21,537	20,280	45,815
575	Peck, L. J., .....	22,333	20,268	34,359
1,182	Peacock, J. & S. E., .....	16,942	16,738	36,085
1,017	Peacock, J. & Co., .....	21,867	22,308	30,202
624	Plumbly, G. & Co., .....	23,265	21,794	37,373
541	Price, E. B. & Co., .....	22,893	26,807	36,400
594	Riley, L. jun., .....	24,416	22,918	36,971
880	Richman, T. & Co., .....	29,265	26,464	36,049
368	Rogers, J., .....			36,888
195	Spencer, U., .....			43,930
768	Sherman, B., .....			

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 232.	No. 233.	No. 234.
	Engineers' estimate,.....	\$26,997	\$26,279	\$41,017
794	Sherman, J. W.,.....	25,513	23,542	39,881
1,196	Sloane, W. M.,.....	38,223	34,033	54,613
1,080	Sutherland, A. & Co., .....	22,803	20,998	37,239
1,047	Sherill, J. H. & Co., .....	.....	.....	45,433
1,247	Storrs, H. E. & Co., .....	.....	.....	39,608
558	Turner, Otis,.....	.....	.....	45,361
395	Vernam, J. & Co.,.....	31,389	27,718	39,820
719	Van Der Karr, L. & Co.,.....	25,570	24,496	44,906
171	Voorties, W.,.....	33,737	31,932	37,976
338	Williams, L. & Co., .....	23,790	22,812	28,751
155	Wright, P. D.,.....	17,305	14,775	38,872
784	Woodworth, S.,.....	25,583	26,175	41,955
1,121	Wright, J. T. & Co.,.....	25,381	23,937	39,881
1,110	Williams, G. & Co., .....	25,513	23,542	42,861
902	Walker, Wm.,.....	31,805	28,153	40,192
		.....	25,175	

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 235.	No. 236.	No. 237.
	Engineers' estimate,.....	\$23,487	\$26,453	\$27,133
672	Akenhead, T. & Co.,.....	20,891	22,921	26,193
464	Akenhead, W. & R.,.....	21,114	22,827	.....
679	Andrews & Hall,.....	20,376	26,169	.....
79	Burrell, T.,.....	23,522	.....	.....
170	Beebe, J. L. & Co.,.....	20,282	22,555	26,819
474	Britton, J. W. & Co.,.....	20,725	23,236	23,575
1,201	Barker, C. C. & Co.,.....	22,342	25,064	23,976
117	Barney, N. G. & Co.,.....	20,318	22,033	25,916
1,023	Barry, M. & Co.,.....	24,306	27,323	22,615
770	Bradshaw, H. B.,.....	21,828	24,026	28,290
953	Barton, D. R. & Co.,.....	23,092	25,356	26,022
1,142	Boyce, Peter,.....	.....	.....	26,137
364	Clark, S. & Co.,.....	23,369	25,554	22,540
864	Candee, W. & Co.,.....	20,521	22,839	26,232
647	Cady, H. & Co.,.....	23,386	26,077	23,597
370	Clark, J. W.,.....	19,973	22,320	27,229
796	Church, R.,.....	21,867	24,441	23,150
1,024	Colt, H. V.,.....	25,803	28,953	25,344
1,057	Church, W. S.,.....	21,894	24,346	29,659
1,026	Candee, D. & Co.,.....	19,283	20,483	25,383
1,002	Corbett, M.,.....	20,091	23,784	21,218
				23,688

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 235.	No. 236.	No. 237.
	Engineers' estimate,.....	\$23,487	\$26,453	\$27,133
192	Clark, P. W., .....	20,328	22,882	23,720
284	Clark, E., .....	21,074	23,721	24,596
• 670	Caswell, N. B., .....	20,553	22,997	23,930
689	Chipman, J. B., .....	.....	.....	23,238
888	Decker, N. H., .....	24,701	27,080	28,200
910	Dodge, J. A. & Co., .....	19,600	21,805	21,861
200	Demmon, J. M., .....	20,286	.....	.....
408	Ellicott, J. & Co., .....	22,694	25,164	25,758
422	Ennis, R., .....	18,496	23,116	23,963
1,224	Everett, G. C. & Co., .....	23,078	28,079	.....
109	Ennis, E. & W. H., .....	.....	22,830	24,368
1,050	Falling, J., .....	22,323	.....	.....
46	Grant, L. A. G. B., .....	23,572	26,219	26,869
255	Goodrich, J. W., .....	17,963	20,095	.....
767	Hart, J. & Co., .....	18,962	21,132	23,076
849	Hart, M. & Co., .....	20,824	21,683	22,498
1,006	Hawley, A., .....	24,138	26,486	27,533
894	Hudmit, J. O. & Co., .....	.....	.....	26,704
274	Kenyon, D., .....	23,079	22,658	25,970
283	Knowles, J. jun., .....	21,379	24,137	26,188
257	King, J. B. & Co., .....	14,234	16,822	.....

376	Leach, J. & Co.,	20,737	23,375	24,469
495	Lamoreaux, A. O.,	19,731	24,267	24,608
973	Law, G.,	22,964	25,659	26,218
466	Lyman, A.,	21,241	23,892	25,206
34	Moore, C. H. & Co.,	27,343	29,974	30,935
399	Moore, S.,	20,203	21,901	23,800
901	Mills, T. G. & W.,	18,247	20,375	20,982
289	Moore, W. B.,	18,880	20,573	21,502
1,085	Mills, M. H. & Co.,	.....	.....	27,595
419	Nellis, R. S.,	19,661	23,219	26,147
1,063	Nichols, J. H.,	23,039	25,372	26,826
1,189	Nelson, R. & Co.,	18,497	21,281	22,503
760	Nichols, O. & Co.,	19,414	24,445	21,184
1,235	Niven, A. H.,	24,598	27,970	.....
575	Peck, L. J.,	27,657	31,060	31,739
624	Plumbley, G. & Co.,	16,302	16,983	17,706
1,017	Peacock, J. & Co.,	19,566	.....	.....
984	Palmer, P. & Co.,	.....	.....	21,696
541	Price, E. B. & Co.,	.....	.....	23,944
880	Richman, T. & Co.,	.....	.....	23,462
368	Rogers, J.,	22,145	24,433	25,013
594	Riley, L. jun.,	20,695	23,756	23,872
195	Riley, L. jun.,	19,954	22,047	24,571
768	Spencer, U.,	21,072	23,780	28,598
794	Sherman, B.,	24,948	27,676	25,344
1,196	Sherman, J. W.,	21,867	24,441	37,880
1,080	Stoane, W. M.,	33,763	36,782	24,281
	Sutherland, A. & Co.,	20,871	23,336	.....



# BIDS ON SECTION WORK—(CONTINUED.)

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[ASSEMBLY

No. of proposals.	NAMES OF BIDDERS.	No. 235.	No. 236.	No. 237.
		\$23,487	\$26,453	\$27,133
1,247	Skorrs, A. G. & Co., ..	23,148	24,310	25,200
556	Turner, Otis,.....	27,436	29,993	30,744
396	Vernam, J. & Co.,.....	23,046	25,143	25,931
719	Van Der Karr, L. & Co.,.....	28,909	31,360	32,615
271	Voorhies, W ,.....	21,557	24,178	25,133
338	Williams, L. & Co., .....	13,778	16,039	16,639
155	Wright, P. D.,.....	20,874	24,192	24,783
902	Walker, William,.....	25,525	27,837	28,484
784	Woodworth, S.,.....	23,222	26,518	27,198
1,121	Wright, J. T. & Co.,.....	21,867	24,441	25,344
1,110	Williams, G. & Co., .....	27,829	34,017	35,181
542	Wagner, D. & Co., .....	.....	25,646	26,598

## BIDS ON SECTION WORK—(CONTINUED.)

Number of proposition.		NAMES OF BIDDERS.	No. 239.		No. 239.
Engineers' estimate.			\$35,500		
672.....		Akenhead, T. & Co.,.....	34,589		...
1,146.....		Austin, W. O.,.....	32,851		35,048
79.....		Burrell, T.,.....	35,232		41,205
170.....		Beebee, J. L. & Co.,.....	30,852		33,055
474.....		Britton, J. W. & Co.,.....	31,574		36,694
952.....		Barton, D. R., & Co.,.....	33,302		38,023
1,201.....		Barker, C. C. & Co.,.....	33,889		39,074
1,142.....		Boyce, Peter,.....	31,430		35,534
1,023.....		Barry, M., & Co.,.....	36,353		41,965
1,194.....		Brayton & Morris,.....	52,882		61,900
364.....		Clark, S. & Co.,.....	34,511		40,213
867.....		Candee, W. & Co.,.....	30,764		37,893
647.....		Cady, H. & Co.,.....	23,698		36,868
370.....		Clark, J. W.,.....	30,002		35,202
689.....		Chipman, J. B.,.....	30,793		33,334
796.....		Church, R.,.....	32,722		38,709
1,024.....		Colt, H. V.,.....	39,102		45,031
1,057.....		Church, W. S.,.....	32,820		38,372
1,626.....		Candee, D. & Co.,.....	27,974		31,184
1,002.....		Corbett, M.,.....	32,497		.....
192.....		Clark, P. W.,.....	30,632		36,097
284.....		Clarke, E.,.....	31,933		67,978

# BIDS ON SECTION WORK—(CONTINUED.)

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[ASSEMBLY]

Engineers' estimates,	No. of proposition.	NAMES OF BIDDERS.	No. 238.		No. 239.	
			\$35,500		\$41,004	
670.....		Caswell, N. B.,.....	31,165		36,347	
681.....		Cochrane, J. & Co.,.....	41,594		46,634	
888.....		Decker, N. H.,.....	36,302		.....	
910.....		Dodge, J. A. & Co.,.....	29,713		33,669	
200.....		Dunron, J. W.,.....	30,462		.....	
408.....		Ellicott, J. & Co.,.....	33,920		39,549	
422.....		Ennis, R.,.....	31,394		37,783	
1,224.....		Everett, C. G. & Co.,.....	35,356		41,015	
109.....		Ennis, E. & W. H.,.....	32,053		.....	
52.....		Ennis, E. & Co.,.....	.....		33,943	
46.....		Grant, L. A. G. B.,.....	35,282		41,256	
767.....		Hart, J. & Co.,.....	29,903		35,445	
849.....		Hart, M. & Co.,.....	30,921		35,606	
1,006.....		Hawley, A.,.....	35,300		41,512	
894.....		Hudnut, J. O. & Co.,.....	36,571		41,219	
274.....		Kenyon, D.,.....	26,091		34,791	
803.....		Kerns, T. & E.,.....	33,682		40,394	
233.....		Knowles, J. jr.,.....	34,113		.....	
513.....		Knapp, E.,.....	.....		34,468	
376.....		Leach, J. & Co.,.....	29,693		34,863	
495.....		Lamoraux, A. O.,.....	28,829		38,026	
973.....		Law, G.,.....	34,557		40,338	

466.....	Lyman, A.,.....	32, 956	37, 899
34.....	Moore, C. H. & Co., .....	40, 822	46, 649
399.....	Moore, S.,.....	30, 323	37, 647
901.....	Mills, T. G. & W.,.....	27, 622	31, 413
289.....	Moore, W. B.,.....	27, 672	32, 672
1, 156.....	Mills & Harwood, .....	31, 195	35, 894
1, 085.....	Mills, M. H. & Co.,.....	35, 474	.....
945.....	McDonald, A. P., .....	.....	38, 288
419.....	Nellis, R. S.,.....	27, 491	33, 942
1, 063.....	Nichols, J. H.,.....	33, 306	38, 288
1, 189.....	Nelson, R. & Co.,.....	30, 236	32, 897
760.....	Nichols, C. & Co., .....	26, 598	34, 502
575.....	Peck, L. J.,.....	41, 673	48, 138
984.....	Palmer, P. & Co., .....	27, 970	31, 568
624.....	Plumbly, G. & Co., .....	24, 767	28, 576
1, 017.....	Peacock, J. & Co.,.....	28, 103	33, 133
541.....	Price, E. B. & Co.,.....	30, 808.	.....
1, 182.....	Peacock, J. & S. E., .....	30, 304	35, 714
282.....	Rose, C. & Co., .....	43, 678	48, 609
880.....	Richman, T. & Co., .....	30, 955	35, 758
368.....	Rogers, J.,.....	30, 843	36, 197
594.....	Riley, L. jr.,.....	30, 374	35, 420
195.....	Spencer, U.,.....	30, 908	36, 350
768.....	Sherman, B.,.....	36, 048	43, 744
794.....	Sherman, J. W., .....	32, 722	38, 709
1, 196.....	Sloane, W. M.,.....	49, 726	57, 127
1, 080.....	Sutherland, A. & Co.,.....	30, 564	34, 610

# BIDS ON SECTION WORK—(CONTINUED.)

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ASSEMBLY

No. of proposition.		NAMES OF BIDDERS.		No. 238.	No. 239.
Engineers' estimates.				\$35,500	\$41,004
1,047.	.....	Sherill, J. H. & Co.,	.....	41,246	41,555
1,247.	.....	Storrs, H. E. & Co.,	.....	32,677	37,625
558.	.....	Turner, Otis,	.....	40,442	46,821
395.	.....	Vernam, J. & Co.,	.....	33,910	39,628
719.	.....	Van Der karf, L. & Co.,	.....	44,039	47,815
271.	.....	Voorhies, W.,	.....	32,640	37,256
338.	.....	Williams, L. & Co.,	.....	23,134	27,133
155.	.....	Wright, P. D.,	.....	23,656	36,422
542.	.....	Wagner, D. & Co.,	.....	34,726	40,457
784.	.....	Woodworth, S.,	.....	32,454	37,628
902.	.....	Walker, W.,	.....	37,842	43,335
1,121.	.....	Wright, J. T. & Co.,	.....	32,722	38,709
1,110.	.....	Williams, G. & Co.,	.....	45,920	32,204

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 241.				No. 242.				No. 243.				No. 245.			
		Engineers' estimate,				\$19,787				\$16,768				\$9,110			
1,139	Archer, O. & Co .....	26,634															
79	Burrell, T. ....	30,598				19,589				16,473				10,223			
170	Beebe, J. L. & Co. ....	26,075				16,655				14,078				8,560			
474	Britton, J. W. & Co. ....	26,852				17,356				14,706				8,796			
959	Barton, D. R. & Co. ....	28,857				18,508				15,514				10,037			
1,201	Barker, C. C. & Co. ....	28,181				18,266				15,675				9,432			
1,142	Boyce, P. ....	26,230				15,835				14,244							
645	Barnard, G. W. ....					17,496				14,677							
364	Clark, S. & Co. ....	29,650															
518	Clark, J. L. & Co. ....	25,677				16,311				16,234				8,769			
867	Cander, W. & Co. ....	27,687				17,092				14,320				8,659			
795	Cass, C. G. & Co. ....	27,788				17,656				14,673				8,845			
647	Cady, H. & Co. ....	27,331				17,385				14,831				9,083			
770	Clarks, J. W. ....	26,746				16,577				13,917				8,606			
689	Chipman, J. B. ....	26,519				16,198				14,878				8,705			
796	Church, R. ....	28,862				18,287				15,455				9,442			
1,024	Colt, H. V. ....	34,273				21,988				18,260				11,465			
1,057	Church, W. S. ....	28,663				18,313				15,500				9,506			
1,026	Candee, D. & Co. ....	24,167				15,695				13,246				8,042			
1,002	Corbett, M. ....	26,340				16,821				14,092				8,700			
192	Clark, P. W. ....	27,209				16,977				14,332				8,800			

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 241.				No. 242.				No. 243.				No. 245.			
		Engineers' estimate.				\$30,994				\$19,787				\$16,768			
284	Clarke E.	28,075				28,075				17,568				14,489			
670	Caswell, N. B.	27,054				27,054				16,562				13,892			
1,234	Cole, E. & Co.									18,430				15,982		8,656	
888	Decker, N. H.	30,764								19,760				16,554		10,086	
910	Dodge, J. A. & Co.	26,950				26,950				16,215				13,915		8,451	
52	Ennis, E. & Co.	27,264				27,264				16,822				15,039		8,451	
408	Ellicott, J. & Co.	29,686				29,686				18,890				15,861		9,921	
422	Ennis, R.	28,952				28,952				18,277				15,250		8,955	
1,224	Everett, C. C. & Co.	31,541				31,541				18,980				15,679		10,321	
1,174	Estabrook, T. D.	30,268				30,268				19,473				16,297		10,909	
1,083	Farwell, S. & Co.	27,713				27,713				16,991				14,521		8,922	
46	Grant, L. A. G. B.	30,648				30,648				19,639				16,523		10,273	
255	Goodrich, J. W.													14,790			
844	Hewes & Robinson	29,330				29,330				18,370				15,470		9,300	
767	Hart, J. & Co.	23,215				23,215				14,796				10,617		7,308	
849	Hart, M. & Co.	21,030				21,030				13,186				12,990			
1,006	Hawley, A.	31,504				31,504				20,058				16,731		10,485	
1,894	Hudnut, J. O. & Co.	31,260				31,260				20,512				16,848		9,870	
1,200	Hart, & Palmer													10,976			
513	Knapp, E.	25,567				25,567				15,206				14,969		8,772	
274	Kenyon, D.	21,119				21,119				18,119				14,172		11,035	

803	Kerns, E. & T.	27, 972	.....	.....	10, 204
1, 181	Kimball, W. & Co.	23, 893	15, 010	12, 748	7, 495
377	Leach, J. & Co.	26, 130	16, 650	14, 160	8, 451
495	Lamoreaux, A. O.	26, 932	17, 471	14, 668	10, 335
973	Law, Geo.	29, 412	19, 709	16, 589	9, 947
466	Lyman, A.	28, 853	17, 661	14, 832	8, 885
34	Moore, C. H. & Co.	84, 736	22, 869	19, 157	12, 150
399	Moore, S.	27, 123	16, 447	14, 573	8, 671
901	Mills, T. G. & W.	24, 700	15, 453	.....	.....
945	McDonald, A. P.	30, 039	19, 108	16, 250	9, 620
964	Mead, J. A.	27, 374	19, 216	16, 233	.....
458	Miller, J.	27, 290	17, 280	14, 815	.....
419	Nellis, R. S.	24, 370	16, 438	14, 328	10, 045
1, 064	Nichols, J. H.	30, 039	19, 108	16, 663	10, 192
1, 189	Nelson, R. & Co.	24, 205	15, 748	13, 632	8, 389
760	Nichols, C. & Co.	26, 144	17, 250	13, 856	8, 354
575	Peck, L. J.	36, 303	23, 509	19, 982	12, 498
984	Palmer, P. & Co.	23, 472	13, 940	11, 832	.....
624	Plumbley, G. & Co.	22, 042	.....	.....	.....
282	Rose, C. & Co.	38, 035	24, 651	20, 121	13, 259
880	Richman, T. & Co.	26, 037	16, 303	12, 944	12, 994
368	Rogers, J.	26, 908	16, 811	14, 600	8, 586
703	Richards, J. H. & Co.	.....	.....	.....	9, 655
195	Spencer, U.	26, 800	17, 140	14, 400	8, 660
768	Sherman, B.	32, 418	20, 896	17, 712	10, 938
794	Sherman, J. W.	28, 862	18, 287	15, 455	9, 442
1, 196	Sloane, W. M.	43, 264	28, 177	14, 542	15, 039



## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 241.	No. 242.	No. 243.	No. 245.
	Engineers' estimate,.....	\$30,994	\$19,787	\$16,768	\$9,110
1,080	Sutherland, A. & Co.....	27,357	17,156	14,792	8,859
603	Snedaker, A.....	27,933	16,963	14,267	.....
1,247	Storrs, H. E. & Co.....	29,102	19,174	15,914	9,924
558	Turner, Otis.....	35,110	22,905	19,007	12,106
395	Vernam, J. & Co.....	29,350	18,926	15,838	9,724
719	Van Der Karr, L. & Co.....	37,061	24,105	20,016	13,154
271	Voorhies, Wm.....	28,507	17,473	13,863	9,157
338	Williams, L. & Co.....	21,608	13,359	11,684	6,822
155	Wright, P. D.....	27,582	17,238	14,534	9,282
542	Wagner, D. & Co.....	29,420	.....	.....	.....
902	Walker, Wm.....	31,857	20,640	17,167	10,882
784	Woodworth, S.....	32,120	20,816	17,850	10,365
1,121	Wright, J. T. & Co.....	28,862	18,287	15,455	9,442

## BIDS ON SECTION WORK—(CONTINUED.)

No. of Propo- sition	NAMES OF BIDDERS.	No. 246.		No. 247.		No. 248.		No. 249.	
		Engineers' estimates,.....		\$37,847		\$33,499		\$41,802	
106	Allen, S. P.,.....	28,609		34,261		30,786		38,004	
464	Akenhead, W. & R.,.....	24,404		30,442		26,046		29,407	
1,139	Archer & Boyce,.....	25,436		32,608		30,578		36,628	
231	Beal, S. & D. C.,.....	21,975		27,994		24,216		29,439	
363	Barnard, A.,.....	26,245		31,029		25,788		35,126	
79	Burrell, T.,.....	30,850		35,312		30,596		37,012	
170	Beebe, J. L. & Co.,.....	23,860		28,835		25,285		31,300	
484	Burr, A. L. & Co.,.....	29,852		36,671		32,099		39,718	
156	Buell, W.,.....	34,929		40,782		45,725		44,547	
1,177	Ball, S. & S. S.,.....	27,763		33,694		30,101		38,819	
822	Barker & Roberts,.....	33,491		37,459		31,395		38,108	
959	Barton & O'Maley,.....	29,568		35,777		31,620		38,938	
474	Britten & Swain,.....	26,976		31,710		27,629		34,240	
1,142	Boyce, P.,.....	29,985		32,919		28,869		38,195	
1,207	Barker, W. & Co.,.....	26,610		31,794		27,786		38,202	
398	Buchan, P. G.,.....	32,368		38,768		34,473		42,893	
1,023	Barry, M. & Co.,.....	36,841		45,196		40,050		50,075	
1,052	Brainerd & Egindon,.....	48,030		44,953		46,877		58,715	
1,193	Brayton & Morris,.....	29,148		31,320		26,414		31,627	
214	Curtis, D. F.,.....	27,130		34,416		29,686		37,904	
33	Cummings, J. P. & T.,.....	23,829		26,897		23,012		27,824	
1,026	Candee & Williams,.....	22,904		29,777		26,174		33,189	

## BIDS ON SECTION WORK—(CONTINUED.)

	NAMES OF BIDDERS.	No. 246.				No. 247.				No. 248.				No. 249.			
		Engineers' estimates,.....				\$37,947				\$33,399				\$41,302			
321	Chamberlain, C. T. & Co., .....	25,862				33,229				29,950				37,174			
867	Candee, W. & Co., .....	27,651				32,335				28,143				34,859			
832	Carmichael, B. F. & Co., .....	25,593				.....				.....				.....			
763	Coleman, W. & Co., .....	.....				.....				.....				.....			
1,180	Compson, J. W., .....	30,555				35,599				30,973				47,798			
795	Case & Baker, .....	24,975				33,162				33,925				40,499			
647	Cady, H. & Co., .....	33,800				40,093				38,307				41,945			
928	Collins, J. & C., .....	33,664				43,209				39,254				47,129			
1,116	Cleary & Smith, .....	27,199				33,524				28,852				49,279			
1,057	Church, W. S., .....	29,031				33,466				29,137				34,957			
364	Clark, Learned, .....	26,399				31,397				27,837				35,152			
1,021	Colt, H. V., .....	29,414				34,599				30,602				35,432			
796	Church, R., .....	29,781				34,724				30,468				37,419			
910	Dodge & Comstock, .....	23,692				28,856				25,454				37,486			
1,035	De Graw, C. J., & H., .....	20,243				21,929				18,771				31,870			
888	Decker, N. H., .....	29,800				35,446				31,831				23,935			
52	Ennis, E. & Co., .....	25,280				33,571				31,300				39,450			
408	Ellicott & Bentley, .....	28,100				32,280				27,946				38,694			
1,173	Estabrook, T. D. & Co., .....	25,944				32,562				33,001				33,961			
422	Ennis, R., .....	26,455				31,789				28,133				41,250			
1,083	Farwell, S. & Co., .....	23,865				47,030				31,612				34,652			
1,243	Farquharson, J. & Co., .....	.....				.....				.....				39,985			
		.....				.....				.....				40,138			

46	Grant, L. A. G. B.,.....	30,250	34,712	29,996	36,412
255	Goodrich, J. W.,.....	25,175	29,821	.....	.....
835	Green, N. B. & Co.,.....	32,834	42,171	38,860	48,484
767	Hart, J. & Co.,.....	22,402	.....	.....	.....
1,200	Hart & Palmer,.....	20,073	32,701	29,558	36,776
1,006	Hawley, A.,.....	24,390	27,667	23,971	29,184
499	Hayes, Jno.,.....	21,199	26,207	22,542	28,909
1,036	Haggarty & Dimond, .....	34,844	44,189	37,879	50,258
826	Johnson, W. & Co.,.....	25,526	32,200	28,579	34,995
846	Jones, S. & Co.,.....	.....	40,039	35,770	45,394
274	Kenyon, D.,.....	24,014	31,344	33,296	34,585
1,181	Kimball, W. & Co.,.....	21,418	25,696	23,521	28,805
716	Kingsley & James,.....	29,784	36,603	30,885	38,103
803	Kerns, E. & T., .....	.....	.....	30,896	.....
32	Lacey, C. T.,.....	28,012	.....	.....	.....
495	Lamoreaux, A. O.,.....	25,178	32,788	.....	36,452
973	Law, Geo.,.....	28,170	34,158	30,505	37,533
125	McCabe, J. & Co.,.....	24,787	30,548	.....	.....
162	Milliner, J. P.,.....	29,457	35,205	29,713	.....
1,156	Mills & Harwood, .....	25,654	29,834	26,279	32,294
947	McDonald, A. P.,.....	23,836	28,548	25,303	31,321
901	Mills, T. G. & W., .....	24,990	29,834	26,469	32,285
399	Moore, S.,.....	26,468	29,389	25,771	31,485
993	McDonald, J.,.....	17,459	19,780	16,941	20,550
451	Martindale & Ferrell,.....	.....	38,013	33,834	41,854
1,158	McWilliams, E. & A.,.....	.....	37,078	33,333	39,032
1,061	McGovern, T. & Co.,.....	.....	30,152	25,950	29,612

## BIDS ON SECTION WORK—(CONTINUED.)

	NAMES OF BIDDERS.	No. 246.	No. 247.	No. 248.	No. 249.
	Engineers' estimates, .....	\$32,040	\$37,847	\$33,499	\$41,302
458	Miller, J. & Co., .....	.....	.....	.....	31,259
419	Nellis, R. S., .....	24,944	32,644	30,478	35,059
394	Norman, H., .....	25,262	31,297	27,881	34,396
489	Nelson, R. & Co., .....	29,520	35,382	30,925	38,143
1,067	Nichols, J. H., .....	23,058	27,254	24,072	29,686
760	Nichols, C. & Co., .....	22,575	31,024	27,659	34,075
907	O'Brian, J., .....	29,092	32,564	29,936	32,641
468	Oswald, J. & Co., .....	28,468	34,268	30,505	38,525
387	Osborn, N., .....	.....	30,910	26,474	32,137
1,017	Peacock, J. & J., .....	24,430	34,975	31,716	40,488
575	Peck, L. J., .....	27,353	44,097	28,333	45,238
475	Pratt, F. & Co., .....	21,800	28,062	25,351	34,075
1,183	Peacock, J. & S. E., .....	25,825	35,704	34,200	42,974
529	Pringle, E., .....	22,132	28,497	22,859	28,222
1,215	Page, D. & Co., .....	25,782	.....	.....	.....
703	Packard & Lapham, .....	19,941	26,994	25,327	31,995
541	Price & Cook, .....	27,997	28,559	27,284	34,954
283	Rose, C. & A. G., .....	23,755	27,535	26,444	32,308
560	Rowley & Foster, .....	24,596	32,161	24,393	.....
641	Rogers, J. C., .....	23,361	28,062	37,016	.....
880	Richman & Morley, .....	30,076	37,493	33,170	47,041
730	Richardson, D. H., .....	31,282	37,659	20,841	40,388

820]	Riley, J. & Co., .....	.....	23, 923	.....	25, 620
768	Sherman, B., .....	32, 061	37, 485	32, 851	40, 270
643	Snedaker, A., .....	26, 302	30, 646	27, 533	35, 104
997	Smith, G., .....	30, 038	35, 190	31, 465	38, 783
1, 196	Sloane, W. M., .....	34, 158	40, 026	35, 197	43, 217
1, 081	Sutherland, A. & Co., .....	29, 993	37, 051	33, 154	41, 174
1, 804	Swain & Nodwell, .....	21, 606	25, 144	21, 964	27, 376
1, 047	Sherrill, J. H. & Co., .....	30, 339	36, 377	32, 044	41, 619
1, 195	Spencer, U., .....	27, 021	32, 189	28, 206	35, 023
1, 031	Stansbury, E., .....	19, 690	22, 616	19, 609	24, 020
1, 794	Sherman, J. W., .....	29, 776	34, 724	30, 468	37, 486
1, 169	Severance, H. M., .....	27, 744	32, 606	28, 404	35, 021
896	St. John & Dunham, .....	28, 611	27, 131	25, 125	29, 660
558	Turner, Otis, .....	31, 785	36, 733	31, 877	38, 894
395	Vernam, J. & Co., .....	29, 170	33, 596	29, 625	36, 082
719	Van Der Karr, L. & Co., .....	26, 654	29, 692	24, 965	29, 777
1, 076	Van De Mark, J. & Co., .....	21, 028	24, 259	20, 835	24, 092
266	Welles, H. S., .....	32, 529	37, 851	32, 815	40, 033
338	Williams & Candee, .....	19, 598	23, 416	21, 516	27, 266
1, 121	Wright, J. T. & Co., .....	29, 691	34, 724	30, 468	37, 486
824	Whitney, J. G. & Co., .....	28, 090	34, 975	31, 052	37, 869
155	Wright, P. D., .....	36, 164	42, 952	37, 981	46, 803
784	Woodworth, S., .....	28, 079	36, 865	32, 499	40, 278
1, 110	Williams, G. & Co., .....	29, 132	35, 095	29, 981	36, 798
902	Walker, Wm., .....	28, 433	32, 903	28, 767	35, 183
1, 010	Woodruff & Rae, .....	31, 664	37, 613	31, 325	39, 245

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 250.	No. 251.	No. 252.	No. 253.	No. 254.
		\$54,913	\$54,342	\$45,740	\$24,827	\$33,839
	Engineer's estimate,.....					
106	Allen, Samuel P.,.....	50,523	50,001	42,005	22,679	31,002
1,139	Archer & Boyce,.....	47,543	47,893	38,070	.....	.....
231	Beal, S. & D. C.,.....	35,647	35,709	36,592	15,217	.....
363	Barnard, A.,.....	44,743	39,471	32,921	19,457	25,788
79	Burrell, T.,.....	49,376	48,912	41,240	25,024	23,072
170	Beebee, J. L. & Co.,.....	41,875	41,440	34,104	18,988	23,744
484	Burr, A. L. & Co.,.....	53,608	53,957	43,777	24,709	34,406
156	Buell, W.,.....	60,378	59,740	48,959	26,952	34,556
1,177	Ball, S. & S. S.,.....	53,399	52,819	39,715	21,563	29,669
822	Barker & Roberts,.....	49,868	49,462	28,390	27,765	35,085
959	Barton & O'Malley,.....	53,014	52,478	43,433	24,210	31,568
474	Britton & Swain,.....	46,312	44,174	37,808	20,866	26,115
1,142	Boyce, P.,.....	48,415	47,912	37,294	21,884	28,929
1,207	Barker, W. & Co.,.....	45,517	45,053	37,717	.....	.....
398	Buchan, P. G.,.....	56,805	56,204	47,463	24,207	35,042
1,023	Barry, M. & Co.,.....	47,864	67,139	54,856	31,069	.....
1,052	Brainerd & Egindon,.....	76,918	74,577	66,290	39,751	50,840
1,193	Brayton & Morris,.....	41,999	41,622	.....	22,441	32,420
117	Barney & Hildreth,.....	.....	.....	.....	19,589	26,390
1,201	Barker, C. C. & Co.,.....	.....	.....	.....	18,355	25,691
848	Burns, J.,.....	.....	.....	.....	.....	29,256

214	Curtis, D. F., .....	50,830	49,908	41,175	21,787	29,082
33	Cummings, J. P. & T., .....	39,228	40,911	34,467	20,323	23,661
1,026	Candee & Williams, .....	45,365	44,901	37,098	17,630	28,771
321	Chamberlain, C. T. & Co., .....	49,514	48,892	30,166	20,435	26,759
867	Candee, W. & Co., .....	55,740	55,160	45,335	25,300	29,072
795	Case & Baker, .....	55,809	55,619	59,677	22,126	29,072
763	Coleman, W. & Co., .....	.....	68,828	.....	.....	.....
1,180	Compton, J. W., .....	55,015	54,587	47,083	23,711	30,537
1,647	Cady, H. & Co., .....	65,295	64,628	43,528	25,378	24,477
928	Collins, J. & C., .....	72,089	71,106	56,043	21,192	28,231
1,116	Cleary & Smith, .....	44,310	46,525	37,284	24,241	28,091
1,057	Church, W. S., .....	46,523	46,088	38,909	18,995	31,546
364	Clark & Learned, .....	49,099	48,577	39,727	20,756	29,282
1,024	Colt, H. V., .....	49,844	49,351	41,048	23,970	32,395
796	Church, R., .....	50,068	49,575	41,295	24,013	32,936
631	Cochrane & Rigney, .....	49,831	49,759	.....	.....	.....
833	Carmichael, B. F. & Co., .....	.....	.....	.....	20,204	27,534
1,234	Cole, E. & Co., .....	.....	.....	.....	.....	26,772
942	Chase, L., .....	.....	.....	.....	.....	26,668
910	Dodge & Comstock, .....	43,336	42,872	35,018	18,984	24,500
1,035	DeGraw, C. J. & H., .....	31,671	29,225	24,995	15,804	20,681
888	Decker, N. H., .....	52,844	52,693	43,303	22,297	21,705
146	Douglass, A. W., .....	.....	.....	.....	.....	28,944
1,112	DeLano, M. & Co., .....	.....	.....	.....	.....	24,515
52	Ennis, E. & Co., .....	51,047	50,554	42,251	23,487	27,251
408	Ellicott & Bentley, .....	45,960	45,525	38,315	23,131	30,660
422	Ennis, R., .....	46,067	45,703	37,806	20,183	26,975



## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 250.	No. 251.	No. 252.	No. 253.	No. 254.
	Engineers' estimate,.....	\$54,913	\$54,342	\$45,740	\$24,827	\$33,839
1,173	Estabrook, T. D. & Co., .....	55,207	52,796	42,443	23,635	29,642
1,083	Farwell, S. & Co., .....	51,835	53,473	40,236	21,678	28,349
1,243	Forquharson, J., .....	53,354	52,832	44,092	21,586	.....
46	Grant, L. A. G. B., .....	49,376	48,912	41,240	25,024	28,002
835	Green, N. B. & Co., .....	65,357	64,601	52,787	25,609	32,538
1,200	Hart & Palmer, .....	46,023	45,530	37,109	15,133	21,363
1,006	Hawley, A., .....	39,005	38,628	32,403	19,352	.....
499	Hayes, J., .....	38,863	41,646	36,059	17,992	21,855
1,036	Haggerty & Dimon, .....	70,554	67,540	55,187	19,601	26,851
1,088	Houghtailing, A., .....	37,691	39,549	.....	.....	.....
886	Haughey, J. & Co., .....	.....	67,640	46,688	20,749	27,345
920	Hunt, S. J., .....	.....	.....	.....	.....	26,599
849	Hart, M. & Co., .....	.....	.....	.....	.....	22,965
826	Johnson, W. & Co., .....	46,589	46,125	38,276	22,237	30,143
846	Jones, S. & Co., .....	62,060	61,364	49,441	25,305	33,695
274	Kenyon, D., .....	48,277	47,734	.....	.....	.....
1,181	Kimball, W. & Co., .....	38,917	38,511	31,702	17,978	21,927
716	Kingsley & James, .....	51,358	50,836	42,067	24,000	33,498
978	Law, G., .....	49,913	47,246	51,588	23,105	31,356
1,075	Luddington, M. E. & Co., .....	.....	.....	41,836	21,347	25,038
125	McCabe, J. & Co., .....	51,013	50,591	.....	.....	.....

1,156	Mills & Harwood, .....	43,244	41,809	35,475	20,457	28,439
947	McDonald, A. P., .....	42,090	41,555	34,213	18,493	25,440
901	Mills, T. G. & W., .....	44,348	43,884	36,020	19,606	27,888
399	Moore, S., .....	39,528	43,471	34,540	.....	.....
993	McDonald, J., .....	27,467	27,206	22,931	13,826	19,223
481	Martindale & Ferrell, .....	56,140	54,511	45,735	24,800	28,212
1,158	McWilliams, E. & A., .....	57,401	48,991	36,331	25,469	33,086
1,061	McGovern, T. & Co., .....	40,083	41,735	33,150	.....	.....
1,102	Mitchell, G., .....	35,836	35,285	.....	.....	.....
190	Moore & Barnard, .....	57,098	54,118	43,885	21,072	26,902
540	McArthur, J. R. & W., .....	40,577	37,740	32,089	19,196	25,553
1,209	McCartney & Co., .....	.....	.....	35,400	16,124	19,842
1,162	Milliner, J. P., .....	.....	.....	.....	.....	30,804
1,049	Matthews, J. B. & Co., .....	.....	.....	.....	.....	31,207
1,189	Nelson, R. & Co., .....	51,169	50,647	41,871	20,970	27,635
394	Norman & Hewes, .....	55,597	54,897	36,467	19,739	24,761
1,067	Nichols, J. H., .....	39,818	39,412	32,574	19,158	24,607
760	Nichols, C. & Co., .....	48,361	46,968	38,415	19,172	25,744
907	O'Brien, J., .....	47,610	36,375	40,089	.....	.....
468	Oswald, J. & Co., .....	52,499	51,919	42,010	19,191	27,085
387	Osburn, N., .....	42,951	42,495	35,823	21,594	34,576
934	Olney, J. & Co., .....	.....	.....	.....	.....	26,320
1,017	Peacock, J. & J., .....	55,972	55,421	45,239	22,729	25,860
575	Peck, L. J., .....	59,582	60,065	50,568	29,092	35,856
475	Pratt, F. & Co., .....	47,445	45,408	35,662	19,142	21,654
1,183	Peacock, J. & S. E., .....	55,886	53,778	44,189	21,495	27,246
529	Pringle, B., .....	38,104	37,713	31,096	17,517	24,889

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 250.	No. 251.	No. 252.	No. 253.	No. 254.
	Engineers' estimate, .....	\$54,913	\$54,342	\$45,740	\$24,827	\$33,839
703	Packard & Lapham, .....	45,130	45,466	40,659	.....	.....
541	Price & Cook, .....	49,095	48,602	38,575	19,120	25,784
1,056	Pettys, B., .....	84,970	35,642	28,852	.....	.....
1,215	Page, D. & Co., .....	.....	46,388	34,527	21,064	22,560
774	Peterson, J., .....	.....	.....	33,181	.....	24,734
1,233	Peirce, H., .....	.....	.....	.....	17,782	22,464
913	Quackenboss, H. & Co., .....	.....	.....	.....	.....	25,423
283	Rose, C. & A. G., .....	45,378	47,103	35,442	19,409	24,969
880	Richman & Morley, .....	65,325	64,548	52,091	26,976	28,420
730	Richardson, D. H., .....	53,813	53,291	44,012	25,050	29,771
820	Riley, J. & Co., .....	34,420	34,072	26,616	15,509	22,137
560	Rowley & Foster, .....	.....	.....	.....	19,078	27,002
768	Sherman, B., .....	48,105	52,583	43,838	25,710	34,668
643	Snedaker, A., .....	44,150	41,426	.....	.....	27,266
997	Smith, G., .....	52,071	51,349	42,601	23,827	32,590
1,196	Sloane, W. M., .....	57,878	57,298	47,537	27,438	37,357
1,081	Sutherland, A. & Co., .....	61,931	61,264	49,854	26,698	22,676
804	Swain & Nodwell, .....	35,717	35,277	29,592	16,925	26,636
1,047	Sherrill, J. H. & Co., .....	54,401	53,821	43,999	.....	.....
1,195	Spencer, U., .....	47,407	46,914	38,632	20,184	29,211
1,031	Stansbury, E., .....	32,262	31,943	26,640	15,587	22,071

1,169	Severance, H. M.,	47,224	46,746	37,923	21,678	29,770
1,077	Sage & Dunham,	32,713	32,347	28,369	.....	.....
794	Sherman, J. W.,	50,068	49,575	41,296	24,213	32,936
572	Strong, M.,	.....	.....	.....	.....	32,824
817	Smith & Tracy,	.....	.....	.....	.....	28,905
558	Turner, Otis,	52,165	51,672	43,487	26,348	35,111
395	Vernam, J. & Co.,	15,777	50,248	41,481	22,326	30,750
719	Van Der Karr, L. & Co.,	39,487	39,261	33,535	21,223	27,385
1,076	Van Demark, J. & Co.,	34,558	34,210	26,767	16,257	20,856
533	Van Riper, A. & Co.,	.....	.....	.....	.....	16,852
266	Welles, H. S.,	57,895	57,415	47,577	26,803	27,049
338	Williams & Candee,	44,244	43,780	30,974	14,259	18,368
1,121	Wright, J. T. & Co.,	50,068	49,575	41,296	24,213	33,015
824	Whitney, G. J. & Co.,	50,556	50,063	41,886	23,663	31,834
155	Wright, P. D.,	62,539	58,655	47,617	27,341	38,364
784	Woodworth, S.,	56,290	55,710	45,592	23,149	31,244
1,110	Williams, Geo. & Co.,	41,558	51,036	42,266	24,162	33,104
992	Walker, W.,	47,057	46,593	38,821	22,743	31,265
1,010	Woodruff & Rae,	53,393	52,821	43,107	24,071	33,921
1,199	Williams, H. E.,	.....	.....	.....	14,662	19,068

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 255.	No. 256.	No. 258.	No. 257.	No. 259.
		Engineers' estimate, ..				
106	Alley, S. P. ....	359,048	89,389	30,748	62,884	232,460
1,339	Archer & Boyce .....	.....	.....	26,236	.....	212,007
619	Andrus & Hall. ....	.....	.....	20,706	.....	.....
286	Baker, J. W. ....	.....	.....	24,671	.....	211,875
1,045	Burchard, B. & Co. ....	.....	.....	22,129	.....	.....
994	Baldwin, G. W. ....	.....	94,036	31,793	.....	.....
783	Bloss & Adams, .....	.....	.....	28,423	.....	219,915
231	Beals, S. & D. C. ....	216,947	72,916	23,939	53,570	.....
363	Barnard, A. ....	231,219	67,978	26,237	51,000	162,396
79	Burrell, T. ....	444,738	88,377	33,098	64,191	253,495
170	Beebe, J. L. & Co. ....	313,141	73,672	19,191	47,847	213,118
484	Burr, A. L. ....	364,964	98,441	32,662	67,197	237,959
156	Buell, W. ....	365,860	102,900	26,576	64,048	317,916
1,177	Ball, S. & S. S. ....	284,014	81,148	28,943	56,880	215,739
822	Barker & Roberts. ....	465,221	130,261	33,286	84,734	308,161
959	Burton & O'Maley. ....	264,031	78,011	31,475	59,716	235,050
474	Britton & Swain. ....	342,271	85,950	29,595	61,743	210,888
1,142	Boyce, P. ....	354,770	79,513	26,418	52,875	237,663
398	Buchan, P. G. ....	395,533	100,203	34,768	70,431	258,456
1,023	Barry, M. & Co. ....	493,539	130,156	29,976	87,061	353,307
1,201	Barker, C. C. & Co. ....	.....	.....	25,070	.....	.....

1,193	Brayton & Morris,.....	701,768	181,286	44,702	117,806	490,902
1,238	Buell, W. W. ....	.....	.....	.....	.....	198,586
848	Burns, J. ....	346,242	91,042	26,913	61,057	213,045
275	Bronson, A. ....	.....	.....	.....	.....	203,245
1,207	Barker, W. & Co. ....	602,381	76,034	51,976	.....	392,392
1,117	Barney & Hildreth. ....	.....	.....	53,438	.....	.....
928	Collins, J. & Co. ....	438,914	77,563	39,465	17,869	230,109
1,116	Cleary & Smith, ....	279,580	76,220	54,341	27,248	188,830
214	Curtis, D. F. ....	319,656	82,196	57,449	28,534	229,260
33	Cummings, J. P. & T. ....	843,931	135,958	77,630	29,149	547,929
1,026	Candee & Williams. ....	367,594	92,133	61,926	21,786	203,658
1,057	Church, W. S. ....	389,509	81,254	58,634	30,896	319,769
867	Candee, W. & Co. ....	319,233	71,073	50,184	25,866	217,075
518	Clark, John L. & Co. ....	.....	.....	.....	27,493	.....
832	Carmichael, B. F. & Co. ....	.....	.....	.....	32,759	258,415
763	Coleman, W. & Co. ....	.....	.....	73,762	36,809	215,662
364	Clark & Learned, ....	356,532	84,072	59,191	28,742	220,564
795	Case & Baker, ....	194,101	84,936	52,885	24,363	325,460
647	Cady, H. & Co. ....	306,386	67,278	48,477	23,128	195,453
891	Culver, O. ....	.....	.....	.....	25,341	.....
1,024	Colt, H. V. ....	390,004	84,745	60,752	30,655	219,429
796	Church, R. ....	376,064	86,202	62,186	32,526	226,156
631	Cochrane & Rigney. ....	.....	81,187	49,959	26,819	.....
1,234	Cole, E. & Co. ....	359,862	92,833	57,045	29,748	235,892
942	Chase, Levi. ....	.....	71,203	51,281	27,209	206,299
321	Chamberlain, C. T. & Co. ....	352,654	86,398	60,185	.....	.....
1,232	Cassidy, T. ....	528,596	134,744	.....	.....	.....

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 255.	No. 256.	No. 257.	No. 258.	No. 259.
	Engineers' estimate, .....	\$393,491	\$99,635	\$70,468	\$32,113	\$231,462
910	Dodge & Comstock.....	278,016	69,776	49,470	24,463	179,503
1,035	De Graw, C. J. & H.....	182,833	56,116	40,390	19,943	130,924
888	Decker, N. H.....	335,724	61,167	38,918	19,785	228,570
146	Douglass, A. W. & Co.....	525,870	120,992	74,058	23,881	411,537
1,112	De Lano, M. & Co.....	393,615	85,307	54,634	22,360	221,364
52	Ennis, E. & Co.....	360,366	86,244	57,291	35,466	232,329
408	Ellicott & Bentley .....	367,842	82,799	59,992	30,808	198,521
422	Ennis, R.....	253,071	78,061	54,360	27,045	193,467
1,173	Estabrook, T. D. & Co.....	444,018	77,404	56,485	25,442	382,000
1,083	Farwell, S. & Co.....	418,841	80,920	52,919	24,350	299,292
46	Grant, L. A. G. B.....	444,738	88,777	64,191	33,398	.....
835	Green, N. B. & Co.....	.....	75,716	53,231	19,038	.....
767	Hart, J. & Co.....	.....	63,412	43,975	17,300	.....
1,200	Hart & Palmer.....	.....	58,177	44,563	17,673	.....
499	Hayes, J.....	320,285	73,089	50,388	18,159	193,697
1,036	Haggerty & Dimond.....	404,432	82,128	39,878	18,300	230,180
1,088	Houghtailing, A.....	.....	.....	41,693	30,840	.....
886	Haughey, J. & Co.....	439,746	80,153	38,836	17,855	136,330
849	Hart, M. & Co.....	.....	69,212	48,096	17,981	.....
37	Homan, B.....	.....	.....	50,279	26,374	219,261
1,195	Hooker, H. E.....	.....	77,056	54,960	27,312	198,743

920	Hunt, J. S.	449,443	79,244	66,242	28,055	289,435
846	Jones, S. & Co.	422,952				240,144
782	Johnson, M. F.	359,914				207,599
826	Johnson, W. & Co.	289,520	78,018	51,609	20,706	226,194
1,181	Kimball, W. & Co.	338,158	90,982	43,054	20,738	231,448
716	Kingsley & James.	264,888	93,384	67,036	32,620	201,489
803	Kerns, E. & T.				25,708	217,394
573	Knapp, E.				26,664	224,398
32	Lacey, C. T.			63,402	24,845	
973	Law G.	347,495	68,009	60,137	29,869	204,301
300	Loomis, H. & Co.		69,205	36,166	18,958	
405	Loomis, W.					
1,075	Ladington, M. E. & Co.		71,325			
780	Learned, C. G. & Co.		86,904	61,034		
562	McPherson, J. J.					
1,203	Moore, J. & Co.					
125	McCabe, J. & Co.,	184,965	111,981	76,906	31,900	235,203
162	Milliner, J. P.	328,019	89,130	59,816	28,772	219,471
1,156	Mills & Harwood.	305,126	78,801	52,821	25,903	192,460
947	McDonald, A. P.	367,961	99,159	65,335	27,427	234,854
901	Mills, T. G. & W.	284,764	65,706	47,416	22,300	206,494
993	McDonald, J.	216,468	59,198	41,574	25,716	275,589
451	Martindale & Ferrell.	286,906	70,513	50,354	22,040	180,091
1,158	McWilliams, E. & A.	369,907	103,428	71,843	20,351	155,284
1,102	Mitchell, C.			40,950	22,399	253,230
190	Moore & Barnard.	353,565	82,342	55,175	34,936	220,051
540	McArthur, J. R. & W.	221,066		46,522	21,864	
			63,445		23,027	265,639
					24,468	147,680



## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 255.	No. 256.	No. 257.	No. 258.	No. 259.
	Engineers' estimate,.....	\$393,491	\$99,635	\$70,468	\$32,113	\$231,462
1,061	McGovern, J. & Co. ....	237,506	.....	.....	.....	171,408
1,209	McCartney, H. & Co. ....	518,999	91,377	50,583	17,985	.....
1,049	Mathews, J. B. & Co. ....	317,625	83,675	49,340	19,244	226,878
859	Mudge, S. W. ....	336,785	78,064	34,984	27,859	.....
66	Mirick, J. & H. ....	.....	60,564	43,695	22,776	227,435
825	Morris, J. ....	.....	66,264	42,312	.....	.....
121	Marcellus, A. ....	.....	86,839	.....	.....	.....
964	Mead, J. A. ....	.....	.....	49,321	23,205	254,968
394	Norman & Hewes. ....	.....	81,007	58,407	25,873	.....
1,067	Nichols, J. H. ....	267,871	100,463	66,800	24,768	275,318
760	Nichols, C. & Co. ....	385,180	72,781	43,464	20,317	204,510
1,180	Nelson, R. & Co. ....	310,713	.....	.....	.....	210,679
907	O'Brien, J. ....	.....	.....	57,449	27,442	.....
468	Oswald J. & Co. ....	288,514	79,843	57,081	29,007	207,138
387	Osburn, N. ....	260,315	75,086	54,627	30,024	187,327
889	O'Keefe & Boyle. ....	349,926	86,947	52,478	38,925	.....
934	Olney, J. & Co. ....	324,063	84,803	.....	.....	.....
1,016	Peacock, J. & J. ....	.....	.....	58,575	22,925	.....
575	Peck, L. J. ....	523,706	142,305	92,240	36,043	256,969
475	Pratt, F. & Co. ....	352,985	80,560	42,638	16,542	204,881
1,183	Peacock, J. & S. E. ....	.....	.....	57,336	26,014	.....

1, 215	Page, D. & Co.	.....	79,482	52,269	17,983	308,161
703	Packard & Lapham	387,646	59,702	.....	.....	.....
541	Price & Cook	358,548	72,951	49,509	23,534	231,283
872	Phelps, W.	.....	74,111	47,702	23,157	206,289
555	Peirce S. & Co.	.....	85,546	58,151	24,408	253,038
143	Paine, N. E.	327,934	.....	.....	.....	229,171
529	Pringle, B.	312,907	80,476	.....	.....	.....
774	Peterson, J.	248,518	74,423	.....	.....	.....
1, 233	Peirce, H.	351,554	.....	.....	.....	.....
913	Quackenboss, H. & Co.	207,425	68,416	54,577	25,426	220,693
283	Rose, C. & A. G.	.....	.....	50,510	22,047	.....
560	Rowley & Foster	.....	100,759	67,824	25,789	.....
880	Richman & Morley	604,911	87,352	46,810	23,322	254,022
730	Richardson, D. H.	355,573	95,713	62,137	28,899	219,564
134	Reed, N.	.....	69,435	39,698	18,454	170,025
932	Rae, A.	.....	.....	.....	31,979	255,325
768	Sherman, B.	.....	91,597	66,111	35,185	234,543
643	Snedaker, A.	393,472	.....	.....	28,325	.....
997	Smith, G.	360,606	90,912	64,874	32,790	258,182
1, 196	Sloane, W. M.	361,513	101,276	73,004	38,488	260,081
1, 081	Sutherland, A. & Co	349,586	77,917	47,196	20,039	301,392
804	Swain & Nodwell	356,947	94,829	58,799	26,628	254,662
1, 047	Sherrill, J. H. & Co.	438,914	77,349	56,402	29,437	196,945
195	Spencer, U.	346,159	86,668	61,816	29,952	222,677
1, 031	Stansbury, E.	258,480	69,889	47,822	23,705	185,381
794	Sherman, J. W.	376,064	86,202	62,186	32,526	227,057
1, 169	Severance, H. M.	338,368	87,856	61,760	30,936	224,477

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 255.	No. 256.	No. 257.	No. 258.	No. 259.
	Engineers' estimate,.....	\$393,491	\$99,635	70,463	\$32,113	\$231,462
1,077	Sage & Dunham.....	.....	.....	45,905	21,582	192,095
1,247	Storrs, H. E. & Co.....	.....	86,637	.....	30,850	229,396
572	Strong, M.....	.....	.....	.....	33,917	.....
817	Smith & Tracey.....	439,562	84,440	57,404	30,204	350,269
1,206	Savage, J. & Co.....	472,680	102,859	76,602	39,157	267,011
596	Seeley, L.....	344,876	91,933	66,139	33,110	247,387
533	Smith, E. P.....	354,288	87,129	60,314	30,118	229,170
1,011	Sharp, D. & Co.....	355,977	63,447	40,446	.....	231,282
896	St. John & Dunham.....	355,419	.....	.....	.....	.....
553	Turner, O.....	378,580	89,179	57,035	34,170	227,857
206	Thompson & Nelson.....	297,132	74,755	52,508	21,319	205,914
1,161	Upton, J. & Co.....	324,278	90,169	.....	.....	.....
395	Vernam, J. & Co.....	358,505	85,486	60,715	29,024	221,282
719	Van Der Karr, L. & Co.....	232,389	69,048	52,232	26,990	167,187
1,076	Van De Mark, J. & Co.....	324,855	.....	54,794	24,273	208,504
533	Van Riper, A. & Co.....	.....	75,437	32,199	16,221	.....
266	Welles, H. S.....	382,834	81,792	57,049	24,408	285,743
333	Williams & Candee.....	383,360	83,087	47,888	15,914	250,196
1,121	Wright, J. T. & Co.....	376,064	86,202	62,186	32,526	232,601
824	Whitney, G. J. & Co.....	360,614	88,539	60,420	28,772	219,471
155	Wright, P. D.....	419,338	117,060	80,808	39,750	289,034

784	Woodworth, S.....	405,558	96,136	67,526	32,202	278,955
1,110	Williams, G. & Co.....	388,822	88,385	63,033	33,159	219,514
902	Walker, W.....	325,406	82,091	58,961	30,540	209,507
1,199	Williams, H. E.....	.....	67,785	48,153	17,423	.....
1,090	Walch, R. & Co.....	.....	73,894	51,434	26,374	215,269

# BIDS ON SECTION WORK—(CONTINUED.)

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[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	No. 260.	No. 262.
	Engineers' estimate,.....	\$62,166	\$57,112
106.....	Allen, S. P.,.....	51,262	74,741
679.....	Andrus & Hall,.....	43,548	69,568
363.....	Barnard, A.,.....	44,875	61,012
79.....	Burrell, T.,.....	46,404	70,460
170.....	Beebee, J. L. & Co.,.....	35,377	42,402
484.....	Burr, A. L. & Co.,.....	68,135	.....
156.....	Buell, W.,.....	62,602	70,730
1,177.....	Ball, S. & S. S.,.....	45,878	46,986
822.....	Barker & Roberts,.....	40,441	57,654
959.....	Barton & O'Maley,.....	50,141	46,031
474.....	Britton & Swain,.....	47,621	51,081
1,171.....	Buell, O.,.....	42,933	.....
1,142.....	Boyce, P.,.....	39,383	48,349
398.....	Buchan, P. G.,.....	59,410	.....
1,023.....	Barry, M. & Co.,.....	56,507	.....
1,193-4.....	Brayton & Morris,.....	62,479	63,828
1,238.....	Buell, W. W.,.....	46,583	.....
1,201.....	Barker, C. C. & Co.,.....	46,012	.....
848.....	Burns, J.,.....	42,874	.....
598.....	Bell, J. L.,.....	.....	45,030
783.....	Bloss & Adams,.....	.....	57,992

3	Charliff, O.,	53,433
891	Culver, O.,	73,311
1,002	Corbett, M.,	53,887
214	Curtis, D. F.,	43,781
1,026	Candee & Williams,	38,555
867	Candee, W. & Co.,	44,110
518	Clark, J. S. & Co.,	44,375
832	Carmichael, B. F. & Co.,	36,618
763	Coleman, W. & Co.,	52,074
795	Case & Baker,	49,191
646-7	Cady, H. & Co.,	43,287
928	Collins, J. & C.,	35,857
1,116	Cleary & Smith,	36,040
1,057	Church, W. S.,	43,789
364	Clark & Learned,	51,497
1,024	Colt, H. V.,	45,091
796	Church, R.,	54,374
942	Chase, L.,	68,262
1,232	Cassidy, T.,	51,478
1,234	Cole, E. & Co.,	48,358
689	Chipman, J. B.,	53,806
631	Cochrane & Rigney,	38,064
910	Dodge & Comstock,	58,128
1,035	DeGraw, C. J. & H.,	36,791
888	Decker, N. H.,	47,216
146	Douglass, A. W. & Co.,	44,727
1,112	Delano, M. & Co.,	44,184

# BIDS ON SECTION WORK—(CONTINUED.)

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[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	No. 260.	No. 262.
	Engineer's estimate, .....	\$62,166	\$57,112
52.....	Ennis, E. Co.,.....	47,632	.....
408.....	Ellicott & Bentley, .....	49,616	71,026
422.....	Ennis, R.,.....	38,329	45,446
1,173.....	Estabrook, T. D. & Co.,.....	52,672	.....
46.....	Grant, L. A. G. B.,.....	45,894	70,460
835.....	Green, N. B. & Co.,.....	38,612	.....
767.....	Hart, J. & Co.,.....	32,710	38,320
1,200.....	Hart & Palmer,.....	24,713	38,938
499.....	Haves, J.,.....	33,093	44,917
1,036.....	Hagerty & Dimon,.....	44,473	.....
1,849.....	Hart, M. & Co.,.....	31,369	.....
37.....	Holan, B.,.....	38,184	.....
1,195.....	Hooker, H. E.,.....	69,496	.....
601.....	Hardy, J.,.....	.....	72,042
243.....	Hughes, J. B.,.....	.....	58,889
826.....	Johnsen, W. & Co.,.....	43,244	51,092
846.....	Jones, S. & Co.,.....	43,896	40,318
782.....	Johnson, M. F.,.....	87,711	.....
249.....	Jenkinson, J. & Co.,.....	.....	71,774
1,181.....	Kimball, W. & Co.,.....	33,294	57,607
716.....	Kingsley & James,.....	68,443	.....

513.....	Knapp, E.,.....	57,400	41,646
33.....	Lacey, C. T.,.....	38,771	.....
973.....	Law, G.,.....	51,984	.....
405.....	Loonlis, W.,.....	51,976	.....
125.....	McCabe, J. & Co.,.....	40,919	.....
162.....	Millner, J. P.,.....	49,618	61,428
1,156.....	Mills & Harwood,.....	40,794	48,776
937-9.....	McDonald, A. P.,.....	46,423	54,353
993.....	McDonald, J.,.....	33,784	.....
901.....	Mills, T. G. & W.,.....	35,565	49,047
451.....	Marindale & Ferrel,.....	42,350	.....
1,158.....	McWilliams, C. & H.,.....	61,580	66,329
190.....	Moore & Barnard,.....	47,819	.....
540.....	McArthur, W. & J. R.,.....	35,447	37,568
1,209.....	McCartney, H. H.,.....	36,217	49,529
1,049.....	Mathews, J. B. & Co.,.....	39,482	.....
66.....	Mirick, J. & H.,.....	39,020	48,905
964.....	Mead, J. A.,.....	38,731	.....
27.....	Moore, I. & Co.,.....	.....	76,985
789.....	Moss, J. B.,.....	.....	48,190
1,085.....	Mills, M. H.,.....	.....	109,768
1,061.....	McGovern, T.,.....	.....	65,155
1,189.....	Nelson, B. & Co.,.....	.....	55,515
1,067.....	Nichols, J. H.,.....	46,329	.....
1,235.....	Niven, A. H.,.....	35,975	49,020
760.....	Nichols, C. & Co.,.....	.....	60,047
387.....	Osburn, N.,.....	50,554	62,236



# BIDS ON SECTION WORK—(CONTINUED.)

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ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	No. 260.		No. 262.	
	Engineers' estimate, .....	\$62,166		\$57,112	
468.....	Oswald, J. & Co.,.....	50,926		.....	.....
907.....	O'Brien, J.,.....	.....		54,501	
1,017.....	Peacock, J. & J.,.....	42,863		.....	.....
575.....	Peck, L. J.,.....	62,783		.....	.....
475.....	Pratt, F. & Co.,.....	38,827		.....	.....
1,183.....	Peacock, J. & S. E.,.....	39,919		.....	.....
1,215.....	Page, D. & Co.,.....	37,519		.....	.....
541.....	Price & Cook,.....	43,093		.....	.....
872.....	Phelps, W.,.....	38,001		50,071	
555.....	Peiree, S. & Co.,.....	41,102		.....	.....
913.....	Quackenboss, H. & Co.,.....	50,604		.....	.....
880.....	Richman & Morley,.....	41,174		53,862	
730.....	Kichardson, D. H.,.....	76,164		84,847	
768.....	Sherman, B.,.....	66,117		86,667	
997.....	Smith, G.,.....	46,716		.....	.....
1,196.....	Sloan, W. M.,.....	73,016		.....	.....
1,031.....	Sutherland, A. & Co.,.....	33,529		.....	.....
804.....	Swain & Nodwell,.....	35,585		.....	.....
1,047.....	Sherrill, J. H. & Co.,.....	55,545		63,057	
195.....	Spencer, H.,.....	37,744		51,643	
1,031.....	Stansbury, E.,.....	57,331		.....	.....

794.....	Sherman, J. W.,.....	68,262	79,025
1,169.....	Severance, H. M.,.....	54,991	62,283
897.....	Sage & Dunham,.....	44,664	51,867
817.....	Smith & Tracy,.....	44,320	53,157
1,228.....	Storrs, H. E. & Co.,.....	.....	51,163
558.....	Turner, Otis,.....	67,415	78,398
395.....	Vernam, J. & Co.,.....	57,862	48,530
719.....	Van Der Karr, L. & Co.,.....	56,624	62,239
1,076.....	Van Demark, J. & Co.,.....	48,124	.....
533.....	Van Riper, A. & Co.,.....	25,032	.....
93.....	Van Valkenburgh, D. A. & Co.,.....	.....	51,078
338.....	Williams & Candee,.....	30,423	46,009
1,121.....	Wright, J. T. & Co.,.....	68,617	79,025
824.....	Whitney, G. J. & Co.,.....	64,801	.....
155.....	Wright, P. D.,.....	60,702	.....
784.....	Woodworth, S.,.....	49,283	55,501
1,110.....	Williams, G. & Co.,.....	57,669	62,035
902.....	Walker, W.,.....	47,016	.....
1,199.....	Williams, H. E.,.....	34,414	.....

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 266.	No. 267.	No. 268.	No. 269.	No. 270.
	Engineer's estimate,.....	\$37,354	\$33,084	\$21,532	\$25,572	\$25,476
106	Allen, S. P.,.....	34,646	32,949	28,001	23,788	.....
114	Avery, E.,.....	47,024	42,636	27,035	30,411	31,371
31	Angel, B. F.,.....	43,027	37,265	27,740	26,877	28,271
384	Buell, J.,.....	48,087	41,949	24,693	27,884	30,804
598	Bell, J. L.,.....	31,263	28,796	19,657	24,418	22,426
79	Burrell, T.,.....	42,373	37,910	26,618	30,727	32,077
362	Barnard, A.,.....	39,058	34,411	23,175	25,141	25,805
317	Butler, O. jr. & Co.,.....	34,436	32,055	20,038	23,960	23,450
171	Beebe, J. L. & Co.,.....	34,766	31,421	20,697	25,379	25,347
1,178	Ball, S. & Co.,.....	33,980	31,988	.....	.....	22,322
1,194	Brayton & Morris,.....	48,123	44,060	.....	.....	.....
822	Barker, A. B. & Co.,.....	49,272	42,025	32,531	37,733	37,232
156	Buell, W.,.....	51,388	46,368	30,213	35,469	35,101
957	Barton, D. R. & Co.,.....	39,450	33,324	34,225	29,026	28,681
1,142	Boyce, P.,.....	44,180	29,458	19,666	.....	.....
474	Britton, J. W. & Co.,.....	32,807	29,756	19,803	23,199	24,170
783	Bloss, W. C. & Co.,.....	32,851	31,928	20,363	.....	.....
761	Breed, J. & Co.,.....	36,818	31,610	20,704	26,440	25,294
1,923	Barry, M. & Co.,.....	47,111	38,849	29,588	36,736	35,885
214-15	Curtis, D. F.,.....	35,742	32,179	21,903	25,733	25,314
522	Cole, P. P.,.....	35,257	26,827	20,413	26,911	26,106

301	Curtis, H. M.,	50,732	44,943	22,535	27,349	27,632
646	Cady, H. & Co.,	38,598	29,987	21,457	25,431	25,452
3	Charliff, O.,	87,540	33,310			
832	Carmichael, B. F. & Co.,	38,101				
867	Candee, W. & Co.,	36,402	31,779	22,355	27,082	27,085
1,026	Candee, D. & Co.,	34,590	29,001	21,337	26,795	25,190
1,189	Callender, G. F. & Co.,	43,677	38,391	26,432	31,240	30,883
49	Colton, J. C. & Co.,	39,280	36,075	24,637	29,117	29,084
1,116	Cleary, W. & Co.,	45,418	37,280			32,903
1,234	Cole, E. & Co.,	48,604	37,059			
631	Cochrane, J. & Co.,	38,134	34,212			
518	Clark, J. L. & Co.,	33,266	29,726	20,059	24,946	22,210
1,024	Colt, H. V.,	40,857	36,638	23,024	27,596	27,718
1,055	Clyde, M. A. & Co.,		37,497	28,697	37,743	34,515
364	Clark, S. & Co.,		33,316			
1,002	Corbett, M.,			26,654		
388	Decker, N. H.,	34,994	32,070	19,945	22,673	24,335
1,034	De Grav, C. J. & Co.,	31,287	26,075	18,851	21,986	22,906
148	Daniels, W. P. & Co.,					29,843
408	Ellicott, J. & Co.,	40,004	36,324	25,007	29,071	28,344
46	Grat, L. A. G. B.,	33,158	31,508	21,141	26,062	26,012
736	Gray, J. J.,	42,373	37,910	26,618	30,727	32,027
601	Hardy, J.,	39,418	34,788	21,292	26,540	24,986
849	Hart, M. & Co.,	31,241	25,835	18,986	23,199	23,678
280	Hinds, F. & Co.,	39,823	34,734	24,262	28,481	28,453
920	Hunts, S. J. & Co.,	39,223	34,125	25,781		
767	Hart, J. & Co.,	34,478	26,361	19,100		

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 266.	No. 267.	No. 268.	No. 269.	No. 270.
		\$37, 354	\$33, 084	\$21, 532	\$25, 572	\$25, 476
894	Hudnot, J. O. & Co.,.....	34, 381	30, 982	20, 295	24, 240	24, 219
967	Hall, J.,.....	29, 220	25, 031	18, 533	.....	.....
499	Hayes, J.,.....	40, 058	33, 081	24, 902	.....	.....
1, 195	Hooker, H. E.,.....	40, 889	55, 887	22, 938	26, 971	27, 711
1, 200	Hart, S. & Co.,.....	.....	.....	16, 371	.....	.....
168	Jerome, H. K. & Co.,.....	56, 745	47, 198	26, 105	.....	.....
249	Jenkinson, J. & Co.,.....	36, 660	35, 805	20, 534	25, 599	25, 383
846	Jones, S. & Co.,.....	39, 564	29, 610	22, 470	27, 396	28, 338
826	Johnson, W. & Co.,.....	33, 360	30, 734	20, 018.	.....	23, 069
634	Joslin, C.,.....	.....	.....	.....	20, 605	20, 197
718	Kingsley, A. & Co.,.....	45, 397	39, 059	25, 195	33, 970	34, 310
801	Kerns, E. & T.,.....	41, 057	.....	.....	.....	.....
300	Loomis, H. & Co.,.....	40, 141	.....	19, 255	21, 673	23, 879
916	Lyman, T. A. E. & Co.,.....	45, 397	39, 059	25, 195	33, 820	34, 395
34	Moore, C. H. & Co.,.....	40, 378	37, 250	24, 797	30, 161	32, 566
1, 219	Midler, L. J. & Co.,.....	31, 323	29, 548	18, 532	24, 710	23, 478
789	Moss, J. V.,.....	30, 316	34, 158	22, 007	27, 421	26, 310
162	Milliner, J. P. & Co.,.....	40, 555	32, 386	22, 106	29, 262	30, 792
1, 048	Matthews, J. B. & Co.,.....	39, 895	30, 285	20, 281	27, 071	26, 500
839	Marsh, W. N.,.....	31, 624	26, 679	19, 331	23, 412	22, 687
900	Mills, T. G. & Co.,.....	39, 124	28, 847	19, 975	24, 402	24, 809

753	McCarthy, H. & Co.,	32, 113	23, 521	19, 873	25, 531	25, 034
964	Mead, J. A.,	36, 791	31, 318	22, 498	.....	.....
1, 158	McWilliams & Co.,	49, 250	43, 500	.....	.....	.....
1, 061	McGovern, J. & Co.,	42, 149	.....	.....	28, 517	29, 529
540	McArthur, J. R. & Co.,	41, 082	.....	.....	.....	.....
949	McDonald, A. P.,	.....	33, 042	22, 223	27, 646	28, 057
1, 068	Nichols, J. H.,	48, 116	33, 042	22, 223	28, 070	28, 057
1, 235	Niven, A. H.,	49, 889	.....	.....	.....	.....
236	O'Neill, W. Jr., & Co.,	.....	31, 211	22, 133	.....	.....
387	Osburn, N.,	44, 398	31, 181	25, 319	29, 411	30, 947
396	Palmer, C. G.,	38, 771	33, 545	23, 215	27, 955	27, 904
411	Peck, L. J.,	52, 875	47, 832	25, 790	34, 298	28, 458
1, 016	Peacock, J. & Co.,	.....	36, 142	.....	.....	.....
1, 183	Peacock, J. & Co.,	.....	34, 362	.....	.....	.....
754	Palmer, N.,	.....	.....	.....	24, 323	24, 271
1, 128	Ross, M. L.,	45, 964	44, 882	26, 405	30, 709	30, 889
590	Ryan, J. & Co.,	38, 055	33, 824	23, 284	27, 790	28, 152
733	Richardson, D. H.,	35, 998	30, 375	21, 860	26, 240	26, 491
134	Reed, W.,	.....	.....	22, 733	.....	.....
572	Strong, N.,	59, 817	51, 144	.....	34, 433	57, 469
1, 196	Sloane, W. M.,	52, 931	44, 441	28, 339	33, 501	35, 453
1, 117	Schultz, A. H.,	45, 397	39, 149	25, 195	38, 820	34, 200
1, 206	Savage, J. & Co.,	51, 104	44, 022	32, 715	37, 266	40, 821
817	Smith, J. P. & Co.,	52, 662	36, 871	.....	.....	.....
1, 011	Sharp, D. & Co.,	36, 474	31, 818	21, 605	25, 683	25, 776
794	Sherman, J. W.,	44, 302	37, 850	24, 138	28, 622	29, 847
1, 047	Sherrill, J. H. & Co.,	42, 257	37, 262	24, 924	.....	.....

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 266.	No. 267.	No. 268.	No. 269.	No. 270.
	Engineers' estimate, ....	\$37,354	\$33,084	\$21,532	\$25,572	\$25,476
195	Spencer, U., .....	34,230	30,771	20,379	24,058	24,312
768	Sherman, B., .....	48,633	41,928	26,246	31,258	32,591
1,169	Severance, H. M., .....	48,802	43,728	26,683	32,089	34,008
1,228	Storrs, H. E. & Co., .....	43,505	36,122	24,406	29,233	30,190
569	Thomson, C. B., .....	37,271	33,764	20,878	24,950	25,375
603	Thompson, J. R., .....	40,838	31,762	21,011	25,933	24,371
558	Turner, O., .....	45,976	38,920	25,807	30,290	31,517
816	Vernam, A., .....	33,305	32,536	20,208	24,727	24,401
719	Van Der Karr, L. & Co., .....	43,917	37,261	28,465	31,780	31,673
395	Vernam, J. & Co., .....	36,468	33,721	22,603	26,136	26,450
1,121	Wright, J. T. & Co., .....	44,302	37,850	24,138	28,622	29,847
1,155	Wright, P. D., .....	47,651	42,775	25,593	30,755	.....
1,199	Williams, H. E., .....	29,358	25,651	17,782	23,998	23,328
338	Williams, L. L. & Co., .....	30,208	25,386	17,508	22,478	22,708
902	Walker, W., .....	40,167	35,326	23,322	27,065	27,472
1,110	Williams, G. & Co., .....	45,307	36,991	25,438	30,768	31,893
287	Ward, M. C., .....	.....	44,621	23,793	28,422	32,766

## BIDS ON SECTION WORK--(Continued.)

No. of proposition.	NAMES OF BIDDERS.	No. 271.	No. 272.	No. 273.	No. 274.	No. 275.
		\$24,416	\$29,847	\$25,914	\$22,857	\$24,882
31	Angell, B. F.	25,336	32,336	27,542	24,152	25,884
384	Buell, J.	27,404	36,654	28,352	24,897	21,908
598	Bell, L. J.	20,833	26,479	24,078	20,499	29,883
79	Burrell, T.	29,492	35,971	31,313	28,143	23,545
362	Barnard, A.	24,163	31,983	27,549	22,943	25,223
317	Butler, O., jun.	22,697	28,074	24,331	21,712	36,802
171	Beebee, J. L. & Co.	23,988	28,498	24,657	23,690	34,777
1,178	Ball, S. & Co.	22,298	28,326	24,274	35,054	27,110
832	Barker, A. B. & Co.	36,320	41,682	37,998	32,267	22,792
156	Buell, W.	34,490	40,998	36,174	25,210	24,491
957	Barton, D. R. & Co.	27,868	30,341	28,921	21,268	34,220
474	Britton, J. W. & Co.	23,022	27,027	23,985	22,884	26,753
761	Breed, J. & Co.	24,294	28,627	26,106	33,172	24,292
1,022	Barry, M. & Co.	35,716	37,204	35,834	24,897	29,552
361	Bridges, E. T. & Co.	.....	30,604	27,732	23,297	25,689
402	Bliss, R. & Co.	.....	29,432	25,035	.....	27,367
848	Burns, J.	.....	.....	.....	.....	30,122
215	Curtis, D. F.	24,789	30,226	25,898	23,573	24,964
522	Cole, P. P.	24,258	27,947	25,010	23,983	.....
646	Cady, H. & Co.	26,194	29,866	26,696	25,513	.....
1,055	Clyde, M. A. & Co.	29,795	57,416	.....	.....	.....



## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 271.	No. 272.	No. 273.	No. 274.	No. 275.
		\$24,416	\$29,847	\$25,914	\$22,857	\$24,882
3	Engineers' estimate.					
867	Charliff, O.	23,733	29,431	25,801	22,745	26,269
1,026	Candee, W. & Co.	26,448	30,312	28,524	25,062	24,255
1,189	Candee, D. & Co.	24,529	27,781	25,831	22,781	.....
49	Callender, G. F. & Co.	28,288	33,788	30,352	26,963	28,736
1,116	Colton, J. C. & Co.	28,025	32,511	28,075	25,561	27,284
518	Cleary, W. & Co.	31,534	36,446	.....	.....	.....
1,024	Clark, J. L. & Co.	23,291	27,050	24,533	21,269	22,405
888	Colt, H. V. & Co.	25,874	32,132	28,102	24,721	26,543
1,034	Decker, N. H.	23,147	26,689	22,538	22,821	26,366
148	De Graw, C. J. & Co.	21,088	24,428	21,346	20,237	21,395
408	Daniels, W. P.	29,225	31,086	29,645	.....	.....
736	Ellicott, J. & Co.	27,815	33,139	29,562	26,499	28,182
46	Gray, J. J.	24,482	27,341	23,787	18,974	20,277
601	Grant, L. A. G. B.	29,442	35,921	31,263	28,351	30,125
849	Hardy, J.	23,937	31,289	25,571	22,067	23,643
1,195	Hart, M. & Co.	22,184	24,407	.....	.....	.....
326	Hooker, H. E.	25,749	31,843	27,414	24,458	26,097
249	Ingraham, J.	24,540	31,738	26,107	23,362	24,883
846	Jenkinson, J. & Co.	23,890	28,266	24,429	23,374	23,433
826	Jones, S. & Co.	26,418	27,863	27,171	24,564	26,427
	Johnson, W. & Co.	21,902	26,435	23,442	20,702	23,105

[illegible]

# BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 271.	No. 272.	No. 273.	No. 274.	No. 275.
	Engineers' estimate,	\$24,416	\$29,847	\$25,914	\$22,857	\$24,882
932	Rae, A.	.....	34,960	32,032	.....	.....
572	Strong, M.	31,122	.....	.....	.....	.....
1,196	Sloane, W. M.	31,888	38,976	32,280	29,473	31,207
1,117	Schultz, A. H.	30,481	38,035	30,124	26,520	30,920
1,206	Savage, J. & Co.	37,313	43,885	.....	.....	.....
1,011	Sharp, D. & Co.	24,591	29,446	25,892	23,371	.....
794	Sherman, J. W.	27,235	33,647	29,020	25,855	27,624
195	Spencer, U.	28,131	24,859	24,665	21,983	23,569
768	Sherman, B.	29,874	37,132	36,608	28,241	30,218
1,169	Severance, H. M.	30,358	38,925	33,007	28,777	31,004
1,228	Storrs, H. E. & Co.	27,722	32,846	29,785	26,363	28,163
1,047	Sherrill, J. H. & Co.	.....	33,867	29,843	.....	.....
569	Thompson, C. B.	24,007	29,531	26,213	23,578	24,218
603	Thompson, J. R.	24,301	28,177	24,429	22,459	23,765
556	Turner, O.	28,877	35,305	30,692	27,527	29,297
816	Vernam, A.	23,379	27,308	24,851	.....	.....
719	Van Der Kar, L. & Co.	30,666	35,093	32,131	29,385	30,936
395	Vernam, J. & Co.	25,128	30,550	27,007	23,937	25,549
287	Ward, M. C.	28,594	.....	27,911	26,032	26,891
1,121	Wright, J. T. & Co.	27,412	33,647	29,195	26,030	27,044

1,191	Williams, H. E.....	22,913	23,402	21,281	20,204	23,074
338	Williams, L. L. & Co.....	21,326	23,064	21,058	20,507	21,879
902	Walker, W.....	25,779	31,196	27,706	24,627	26,176
1,110	Williams, G. & Co.....	29,110	34,285	31,047	27,248	29,329

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 276.	No. 277.	No. 278.	No. 279.	No. 280.
		\$24,827	\$24,159	\$24,908	\$24,265	\$38,421
31	Angell, B. F., .....	26,390	25,578	26,204	25,448	41,186
598	Bell, L. J., .....	22,671	26,668	21,755	.....	.....
79	Burrell, T., .....	29,528	28,746	29,398	28,626	44,933
54	Barnard, W., .....	24,647	23,221	23,888	23,996	41,856
317	Butler, O. jr. & Co., .....	23,432	24,074	23,902	22,514	37,665
171	Beebe, J. L. & Co., .....	25,409	24,378	25,401	24,699	36,861
822	Barker, A. B. & Co., .....	37,489	36,613	.....	.....	.....
156	Buell, W., .....	35,561	.....	35,713	34,097	51,694
957	Barton, D. R. & Co., .....	27,772	26,980	27,850	28,826	36,173
474	Britton, J. W. & Co., .....	23,683	22,929	23,150	22,350	34,228
761	Breed, J. & Co., .....	25,214	24,353	24,855	24,730	36,585
1,023	Barry, M. & Co., .....	35,488	34,164	35,474	34,094	56,017
361	Bridges, E. T. & Co., .....	27,623	25,743	27,365	26,761	34,792
402	Bliss, R. & Co., .....	25,988	24,361	25,378	.....	.....
848	Burns, J., .....	29,946	29,298	29,839	29,031	39,118
783	Bloss, W. C. & Co., .....	.....	.....	24,312	.....	.....
1,178	Ball, S. & Co., .....	.....	.....	.....	.....	34,281
1,194	Brayton & Morris, .....	.....	.....	.....	.....	42,042
646.	Cady, H. & Co., .....	28,572	27,171	27,226	26,664	39,943
215	Curtis, D. F., .....	26,348	25,010	26,098	24,954	37,127
1,055	Clyde, M. A., .....	29,602	27,956	28,033	29,332	43,040

3	Charliff, O.,	25,474	23,964	25,391	24,573	38,500
876-8	Candee, W. & Co.,	27,404	26,619	27,284	26,244	34,315
1,026	Candee, D. & Co.,	24,775	24,015	25,267	24,527	38,032
1,189	Callender, G. F. & Co.,	30,604	28,487	29,152	29,632	43,304
49	Colton, J. C. & Co.,	27,909	27,171	27,963	26,931	41,883
518	Clark, J. L. & Co.,	24,795	24,198	22,411	.....	.....
- 1,024	Colt, H. V.,	27,126	26,262	26,991	26,107	40,733
332	Clark, O.,	.....	.....	.....	.....	37,746
631	Cochrane, J. & Co.,	.....	.....	.....	.....	38,150
1,034	De Graw, C. J. & Co.,	21,872	21,395	21,950	.....	31,081
148	Daniels, W. P. & Co.,	.....	.....	.....	.....	39,201
1,221	Everett, G. S. & Co.,	.....	.....	.....	.....	.....
408	Ellicott, J. & Co.,	30,525	30,547	30,918	30,594	40,903
736	Gray, J. J.,	28,792	27,983	28,672	27,848	36,996
46	Grant, L. A. G. B.,	21,161	20,156	22,084	20,321	44,943
601	Hardy, J.,	29,528	28,746	29,398	28,626	.....
1,195	Hooker, H. E.,	24,138	22,701	23,258	.....	41,108
535	Hard, G.,	26,902	25,895	26,579	25,975	38,605
280	Hinde, F. & Co.,	.....	.....	.....	24,671	39,786
103	Harrington, M. H. & Co.,	.....	.....	.....	.....	36,895
326	Ingraham, J.,	25,316	24,696	.....	24,456	45,470
249	Jenkinson, J. & Co.,	24,006	22,313	22,912	.....	.....
846	Jones, S. & Co.,	27,612	26,352	27,374	26,462	.....
826	Johnson, W. & Co.,	23,721	22,879	23,611	22,759	36,531
718	Kingsly, A. & Co.,	29,898	28,094	29,740	27,624	45,182
32	Lacey, C. T.,	24,703	25,417	22,626	.....	.....
300	Loomis, H. & Co.,	22,712	21,994	29,740	23,502	39,098

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 276.	No. 277.	No. 278.	No. 279.	No. 280.
	Engineers' estimate, .....	\$21,827	\$24,159	\$24,908	\$24,265	\$38,421
916	Lyman, T. A. E. & Co., .....	29,827	28,094	.....	27,576	46,242
31	Moore, C. H. & Co., .....	28,109	26,350	27,037	91,925	44,694
1,210	Midler, L. J. & Co., .....	23,527	22,055	23,253	22,683	32,264
789	Moss, J. B., .....	25,530	23,994	23,430	23,100	32,624
162	Millner, J. P. & Co., .....	29,822	26,076	26,153	25,003	42,569
949	McDonald, A. P., .....	27,627	26,852	27,585	26,557	38,560
839	Marsh, W. N., .....	24,240	23,430	24,252	23,270	34,869
900	Mills, T. G. & Co., .....	24,137	23,336	23,994	23,274	36,811
753	McCartney, H. & Co., .....	26,942	26,008	26,245	24,962	35,498
1,166	Mills, H. P. & Co., .....	33,551	22,661	23,190	22,666	33,896
1,085	Mills, M. H. & Co., .....	.....	.....	.....	23,287	35,741
1,068	Nichols, J. H., .....	27,627	26,737	27,585	26,557	38,560
1,016	Peacock, J. & Co., .....	25,523	25,066	24,405	.....	.....
754	Palmer, N., .....	23,962	21,195	24,607	22,986	38,310
1,183	Peacock, J. & Co., .....	25,642	24,677	24,992	26,254	37,054
411	Peck, L. J., .....	31,823	30,562	30,495	31,835	46,468
1,128	Ross, M. L., .....	30,315	29,476	30,138	29,682	44,983
282	Rose, C. & Co., .....	27,265	26,307	27,155	25,536	.....
590	Ryan, J. & Co., .....	26,826	26,183	26,868	25,948	39,049
735	Richardson, D. H., .....	25,894	25,546	27,008	25,808	39,551
1,196	Stearns, W. M., .....	22,226	21,212	22,009	21,097	56,688

1,117	Schultz, A. H.,.....	29,899	28,074	39,740	27,474	46,242
1,206	Savage, J. & Co.,.....	40,003	.....	.....	.....	.....
1,794	Sherman, J. W.,.....	28,255	27,399	28,049	56,949	42,834
195	Spencer, U.,.....	24,017	23,366	23,010	23,123	35,504
768	Sherman, B.,.....	31,048	30,003	30,906	29,898	48,103
1,169	Severance, H. M.,.....	31,557	29,622	.....	.....	.....
1,228	Storrs, H. E. & Co.,.....	28,803	27,918	28,708	27,768	40,270
1,047	Sherrill, J. H. & Co.,.....	.....	.....	.....	.....	44,953
817	Smith, J. P. & Co.,.....	.....	.....	.....	.....	42,918
569	Thomson, C. B.,.....	24,698	23,983	26,883	25,803	39,216
603	Thompson, J. R.,.....	24,645	23,755	24,140	.....	35,975
568	Turner, O.,.....	29,927	29,072	29,822	28,922	44,727
719	Van Der Karr, L. & Co.,.....	32,776	30,813	31,471	31,899	45,754
395	Vernam, J. & Co.,.....	26,008	25,336	25,924	25,124	37,703
93	Van Valkenburgh, D. A. & Co.,.....	.....	.....	28,914	37,698	43,245
287	Ward, M. C.,.....	27,550	.....	.....	.....	.....
1,121	Wright, J. T. & Co.,.....	28,255	27,399	28,149	27,219	42,834
1,199	Williams, H. E.,.....	22,493	21,091	32,726	22,748	31,417
338	Williams, L. L. & Co.,.....	22,862	21,985	22,928	21,652	31,023
902	Walker, W.,.....	26,620	25,946	26,553	25,721	38,300
1,110	Williams, G. & Co.,.....	29,965	24,002	29,863	28,787	42,980
223	Wilder, A.,.....	.....	.....	22,216	21,434	32,291



## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 281.	No. 282.	No. 283.	No. 285.	No. 286.
	Engineers' estimate, .....	\$35,367	\$34,985	\$16,992	\$23,872	\$29,263
31	Angell, B. F., .....	36,060	37,949	18,582	23,588	31,816
79	Burrell, T., .....	39,983	41,428	20,199	25,744	36,132
361	Bridges, E. T & Co., .....	30,615	32,630	15,886	21,882	31,781
317	Butler, S. Jr. & Co., .....	33,415	34,396	17,648	21,267	29,250
171	Beebe, J. L. & Co., .....	33,446	34,725	16,569	20,936	28,167
1,178	Ball, S. & Co., .....	33,011	34,137	16,231	21,070	28,571
1,194	Brayton, T. R. & Co., .....	37,127	39,796	.....	22,881	38,566
848	Burns, J., .....	36,348	37,999	.....	.....	34,924
156	Buell, W., .....	47,103	49,108	23,509	30,800	41,807
957	Barton, D. R. & Co., .....	32,904	34,264	19,102	22,925	32,206
474	Britton, J. W. & Co., .....	31,189	32,388	15,688	19,833	27,311
761	Breed, J. & Co., .....	32,873	29,626	13,989	17,339	27,141
1,023	Barry, M. & Co., .....	41,072	35,578	19,941	27,002	41,442
384	Buell, J., .....	.....	43,529	.....	.....	33,852
362	Barnard, A., .....	.....	.....	.....	21,982	31,240
783	Bloss, W. C. & Co., .....	.....	.....	.....	20,875	27,445
646	Cady, H. & Co., .....	34,896	35,868	17,362	21,973	31,785
215	Curtis, D. F., .....	34,590	35,791	16,785	22,352	30,466
3	Charliff, O., .....	35,606	35,717	16,888	26,646	29,947
1,026	Candee, D. & Co., .....	34,774	33,677	16,070	22,447	29,964
1,189	Callender, G. F. & Co., .....	37,057	37,273	18,503	23,340	33,147

49	Colton, J. C. & Co., .....	38, 293	40, 002	19, 404	24, 944	33, 975
631	Cochrane, J. & Co., .....	34, 873	36, 273	.....	22, 326	.....
868	Candee, W. & Co., .....	30, 004	31, 312	14, 491	17, 964	29, 304
1, 024	Colt, H. V., .....	36, 697	38, 100	18, 625	23, 618	31, 192
1, 232	Cassidy, J., .....	.....	30, 868	16, 848	21, 926	21, 926
332	Clark, O., .....	.....	.....	.....	.....	29, 500
1, 034	De Graw, C. J. & Co., .....	28, 343	.....	.....	.....	.....
148	Daniels, W. P. & Co., .....	36, 826	37, 536	17, 631	22, 565	32, 891
408	Ellicott, J. & Co., .....	38, 401	39, 523	19, 264	24, 857	33, 944
736	Gray, J. J., .....	32, 384	27, 243	12, 286	15, 315	24, 187
46	Grant, L. A. G. B., .....	39, 983	41, 428	20, 199	25, 744	36, 132
280	Hinds, F. & Co., .....	36, 070	37, 827	18, 672	23, 687	33, 500
535	Hard, G., .....	34, 957	34, 843	16, 851	21, 515	32, 821
183	Harrington, M. A. & Co., .....	33, 673	.....	.....	21, 281	.....
1, 195	Hooker, H. E., .....	36, 674	38, 024	18, 660	23, 870	32, 231
659	Holden, S. C., .....	.....	.....	.....	22, 507	31, 938
326	Ingraham, J., .....	35, 171	37, 379	18, 535	24, 679	31, 648
826	Johnson, W. & Co., .....	33, 926	34, 189	15, 937	20, 916	27, 618
718	Kingsley, A. & Co., .....	42, 300	44, 294	31, 249	27, 981	40, 494
801	Kerns, E. & T., .....	37, 245	37, 487	.....	22, 837	34, 805
300	Loomis, H. & Co., .....	37, 285	38, 571	18, 128	23, 422	.....
916	Lyman, T. A. E. & Co., .....	42, 400	44, 294	21, 149	27, 035	38, 746
709	Lewis, W. L. & Co., .....	.....	37, 428	19, 024	22, 776	33, 583
34	Moore, C. H. & Co., .....	39, 286	40, 386	19, 629	26, 194	36, 539
1, 210	Miller, S. J. & Co., .....	27, 805	29, 187	14, 386	17, 024	26, 239
789	Moss, J. B., .....	29, 104	30, 636	16, 158	18, 467	27, 773
235	Meach, H., .....	38, 768	40, 614	18, 895	23, 947	35, 801

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 281.	No. 282.	No. 283.	No. 284.	No. 285.	No. 286.
	Engineers' Estimate.	\$35,367	\$34,985	\$16,992	\$22,872	\$29,263	
162	Milliner, J. P. & Co.,	38,341	35,647	17,166	21,747	.....	.....
949	McDonald, A. P.,	34,207	31,796	15,149	19,688	.....	27,358
1,156	Mills, H. P. & Co.,	30,930	32,787	15,694	20,361	.....	29,059
839	Marsh, W. N.,	31,726	33,856	16,485	18,617	.....	28,287
900	Mills, T. G. & Co.,	32,536	32,261	14,317	18,234	.....	.....
753	McCartney, H. & Co.,	31,571	42,280	21,479	26,447	.....	.....
1,158	McWilliams, E. & Co.,	.....	35,647	17,166	21,747	.....	32,336
1,068	Nichols, J. H.,	34,207	.....	.....	.....	.....	.....
905	O'Brien, J.,	.....	25,982	12,872	.....	.....	.....
754	Palmer, N.,	29,503	44,862	22,523	28,245	.....	38,339
411	Peck, L. J.,	42,642	.....	16,579	.....	.....	.....
1,016	Peacock, J. & Co.,	.....	.....	.....	22,761	.....	35,448
86	Phillips, L. H.,	.....	41,622	20,029	25,483	.....	.....
1,128	Ross, M. L.,	38,871	35,454	17,667	22,445	.....	32,079
590	Ryan, J. & Co.,	35,555	37,365	17,779	22,911	.....	30,956
733	Richardson, D. H.,	36,208	47,170	22,687	28,366	.....	41,548
1,196	Sloane, W. M.,	44,009	41,294	21,149	27,035	.....	38,746
1,117	Schultz, A. H.,	42,340	37,487	20,470	24,929	.....	31,927
817	Smith, J. P. & Co.,	38,683	35,673	19,447	24,027	.....	63,381
794	Sherman, J. W.,	37,834	43,592	20,419	27,112	.....	36,505
1,047	Sherwill, J. H.,	40,562	.....	.....	.....	.....	.....

195	Spencer, U., .....	32,302	35,518	15,927	20,206	27,977
768	Sherman, B., .....	42,740	44,592	22,017	28,220	37,151
1,228	Storrs, H. E. & Co., .....	34,893	36,759	17,612	22,632	33,956
1,169	Severance, H. M., .....	.....	.....	.....	30,763	37,132
569	Thompson, C. B. & Co., .....	35,601	36,854	17,653	23,708	32,471
603	Thomson, J. R., .....	31,335	32,938	16,008	20,208	29,749
558	Turner, O., .....	39,507	41,448	20,282	25,462	35,498
719	Van Der Karr, L. & Co., .....	40,072	40,491	19,623	24,241	38,945
395	Vernam, J. & Co., .....	34,589	36,365	17,655	22,208	30,556
93	Van Valkenburgh, D. A. & Co., .....	33,566	35,004	16,501	21,152	31,201
542	Wagner, D. & Co., .....	36,861	35,933	16,861	21,537	31,160
223	Wilder, A., .....	30,091	32,361	15,782	19,338	27,962
1,121	Wright, J. T. & Co., .....	37,834	39,713	19,447	24,627	33,781
1,199	Williams, H. F., .....	26,664	28,348	13,078	15,337	24,872
338	Williams, L. L. & Co., .....	27,949	28,252	13,095	.....	.....
902	Walker, W., .....	34,478	36,203	17,588	22,149	30,580
1,110	Williams, G., .....	36,919	38,979	18,585	13,401	34,481
784	Woodworth, S., .....	.....	.....	.....	23,963	36,713

## BIDS ON SECTION WORK—(CONTINUED.)

No. of Proposition.	NAMES OF BIDDERS.	No. 287.	No. 288.	OLD LINE.		
				No. 289.	No. 290.	No. 291.
	Engineers' estimate,.....	\$35,955	\$12,904			
31	Angell, B. F.,.....	41,872	14,757	.....	.....	.....
384	Buell, J.,.....	47,942	.....	.....	.....	.....
79	Burrell, T.,.....	44,198	16,761	16,897	25,592	19,462
362	Barnard, A.,.....	35,836	13,721	13,765	19,175	15,986
317	Butler, O. jr. & Co.,.....	35,992	15,016	14,755	21,064	15,755
171	Beebee, J. L. & Co.,.....	34,203	13,655	13,894	19,229	15,558
1,178	Ball, S. & Co.,.....	35,031	.....	.....	.....	.....
1,194	Brayton, T. R. & Co.,.....	47,359	.....	.....	.....	.....
1,156	Buell, W.,.....	50,962	19,256	18,630	27,174	21,768
954	Barton, D. R. & Co.,.....	37,331	15,955	16,214	22,277	18,672
474	Britton, J. W. & Co.,.....	34,058	12,720	13,518	21,373	15,712
783	Bloss, W. C. & Co.,.....	35,681	.....	.....	.....	14,371
761	Breed, J. & Co.,.....	32,417	14,282	14,860	21,725	17,256
1,023	Barry, M. & Co.,.....	46,359	20,694	.....	.....	.....
361	Bridges, E. T. & Co.,.....	39,929	14,576	.....	.....	.....
848	Burns, J.,.....	40,813	16,451	.....	.....	.....
215	Curtis, D. F.,.....	39,213	14,099	14,219	21,228	.....
646	Cady, H. & Co.,.....	37,711	19,895	.....	.....	.....
3	Charliff, O.,.....	37,882	14,477	14,645	20,625	16,799
863	Candee, W. & Co.,.....	33,422	14,768	14,919	21,357	17,158
1,026	Candee, D. & Co.,.....	36,104	15,120	15,362	19,501	17,501

1,189	Callender, G. F. & Co.,	41,611	14,989	.....	.....	.....	.....
49	Colton, J. C. & Co.,	41,069	16,455	.....	16,661	22,641	19,129
631	Cochrane, J. & Co.,	38,253	.....	.....	.....	.....	.....
1,024	Colt, H. V.,	41,636	15,620	.....	.....	.....	.....
332	Clark, O.,	37,248	.....	.....	.....	.....	19,034
1,002	Corbett, M.,	43,399	17,107	.....	.....	.....	.....
1,055	Clyde, M. A. & Co.,	.....	.....	.....	17,026	24,973	19,693
321	Chamberlain, C. T. & Co.,	.....	.....	.....	16,617	23,768	19,357
1,232	Cassidy, J.,	.....	.....	.....	.....	17,459	15,774
148	Daniels, W. P. & Co.,	39,259	.....	.....	.....	.....	.....
1,032	DeGraw, C. J. & Co.,	.....	.....	.....	13,414	17,143	14,025
83	Douglass, A. W.,	.....	.....	.....	17,714	23,633	20,165
408	Ellicott, J. & Co.,	41,903	16,213	.....	.....	.....	.....
1,221	Everett, G. S. & Co.,	49,189	.....	.....	20,096	31,047	22,988
736	Gray, J. J.,	28,387	12,131	.....	12,897	19,380	14,964
46	Grant, L. A. G. B.,	44,198	16,761	.....	16,696	25,391	19,263
280	Hinds, F. & Co.,	41,144	16,011	.....	.....	.....	.....
1,195	Hooker, H. E.,	42,081	15,586	.....	.....	.....	.....
535	Hard, G.,	38,721	.....	.....	.....	.....	.....
659	Holden, S. C.,	39,865	.....	.....	.....	.....	.....
175	Hard, G. & Co.,	.....	15,472	.....	15,486	23,279	19,622
183	Harrington, M. A. & Co.,	.....	.....	.....	14,140	20,401	15,936
326	Ingraham, J.,	41,574	14,965	.....	.....	.....	.....
826	Johnson, W. & Co.,	36,892	.....	.....	.....	.....	.....
801	Kerns, E. & T.,	37,867	.....	.....	.....	.....	.....
715	Kingsley, A. & Co.,	.....	.....	.....	16,492	25,644	19,565
481	King, J. B. & Co.,	.....	14,185	.....	14,302	22,525	15,968

# BIDS ON SECTION WORK—(CONTINUED.)

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[ASSEMBLY

No. of Proposition.	NAMES OF BIDDERS.	No. 287. \$35,955	No. 288. \$12,904	OLD LINE.		
				No. 289.	No. 290.	No. 291.
	Engineers' estimate,.....					
31	Angell, B. F.,.....	41,872	14,757	.....	.....	.....
384	Buell, J.,.....	47,942	.....	.....	.....	.....
79	Burrell, T.,.....	44,198	16,761	.....	25,592	19,462
362	Barnard, A.,.....	35,836	13,721	.....	19,175	15,986
317	Butler, O. jr. & Co.,.....	35,992	15,016	.....	21,064	15,755
171	Beebe, J. L. & Co.,.....	34,203	13,655	.....	19,229	15,558
1,178	Ball, S. & Co.,.....	35,031	.....	.....	.....	.....
1,194	Brayton, T. R. & Co.,.....	47,359	.....	.....	.....	.....
156	Buell, W.,.....	50,962	19,256	.....	27,174	21,768
954	Barton, D. R. & Co.,.....	37,331	15,955	.....	22,277	18,672
474	Britton, J. W. & Co.,.....	34,058	12,720	.....	21,373	15,712
783	Bloss, W. C. & Co.,.....	35,681	.....	.....	.....	14,371
761	Breed, J. & Co.,.....	32,417	14,282	.....	21,725	17,256
1,023	Barry, M. & Co.,.....	46,359	20,594	.....	.....	.....
361	Bridges, E. T. & Co.,.....	39,929	14,576	.....	.....	.....
848	Burns, J.,.....	40,813	16,451	.....	.....	.....
215	Curtis, D. F.,.....	39,213	14,099	.....	.....	.....
646	Cady, H. & Co.,.....	37,711	19,895	.....	21,228	.....
3	Charliff, O.,.....	37,882	14,477	.....	.....	16,799
863	Candee, W. & Co.,.....	33,423	14,768	.....	20,625	17,158
1,026	Candee, D. & Co.,.....	36,104	15,120	.....	21,357	17,501
				15,362	19,501	17,501

1,189	Callender, G. F. & Co.,	41,611	14,989	16,661	22,641	19,129
49	Colton, J. C. & Co.,	41,069	16,455			
631	Cochrane, J. & Co.,	38,253				
1,024	Colt, H. V.,	41,636	15,620			
332	Clark, O.,	37,248				19,034
1,002	Corbett, M.,	43,399	17,107			
1,055	Clyde, M. A. & Co.,			17,026	24,973	19,693
321	Chamberlain, C. T. & Co.,			16,617	23,768	19,357
1,232	Cassidy, J.,				17,459	15,774
148	Daniels, W. P. & Co.,	39,259				
1,032	DeGraw, C. J. & Co.,			13,414	17,143	14,025
83	Douglass, A. W.,			17,714	23,633	20,165
408	Ellicott, J. & Co.,	41,903	16,213			
1,221	Everett, G. S. & Co.,	49,189		20,096	31,047	22,988
736	Gray, J. J.,	28,387	12,131	12,897	19,380	14,964
46	Grant, L. A. G. B.,	44,198	16,761	16,696	25,391	19,263
280	Hinds, F. & Co.,	41,144	16,011			
1,195	Hooker, H. E.,	42,081	15,586			
535	Hard, G.,	38,721				
659	Holden, S. C.,	39,865				
175	Hard, G. & Co.,		15,472	15,486	23,279	19,622
183	Harrington, M. A. & Co.,			14,140	20,401	15,936
326	Ingraham, J.,	41,574	14,965			
826	Johnson, W. & Co.,	36,892				
801	Kerns, E. & T.,	37,867				
715	Kingsley, A. & Co.,			16,492	25,644	19,565
481	King, J. B. & Co.,		14,185	14,302	22,525	15,968



## BIDS ON SECTION WORK--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 287.	No. 288.	OLD LINE.		
				No. 289.	No. 290.	No. 291.
	Engineers' estimate, .....	\$35,955	\$12,904			
300	Loomis, H. & Co., .....	39,776	.....	.....	.....	.....
916	Lyman, T. A. E. & Co., .....	48,608	.....	.....	.....	.....
912	Lyman, T. A. E. & Co., .....	44,718	16,431	16,038	24,276	19,417
32	Lacey, C. T., .....	.....	.....	.....	.....	15,027
34	Moore, C. H. & Co., .....	45,241	17,271	18,552	27,157	21,461
1,210	Middler, L. J. & Co., .....	29,866	13,213	.....	.....	.....
789	Moss, J. B., .....	33,732	14,089	14,420	20,818	16,499
162	Milliner, J. P. & Co., .....	41,938	15,156	.....	.....	.....
839	Marsh, W. N., .....	33,729	16,439	.....	.....	16,876
900	Mills, T. G. & Co., .....	34,037	14,765	14,837	20,390	.....
1,156	Mills, H. P. & Co., .....	33,071	13,539	.....	.....	.....
1,085	Mills, M. H. & Co., .....	84,896	.....	.....	.....	.....
235	Meach, H., .....	44,443	.....	.....	.....	.....
123	McCabe, J. & Co., .....	.....	.....	.....	.....	.....
949	McDonald, A. P., .....	.....	16,444	16,953	22,400	.....
1,068-70	Nichols, J. H., .....	43,064	16,444	.....	.....	.....
1,235	Niven, A. H., .....	.....	.....	16,389	24,039	18,411
468	Oswald, J. & Co., .....	.....	.....	19,794	24,768	22,720
1,016	Peacock, J. & Co., .....	37,535	.....	15,267	22,072	17,892
411	Peck, L. J., .....	44,592	20,975	.....	.....	.....
86	Phillips, L. H., .....	41,324	17,850	17,267	.....	.....
			.....	16,314	25,045	18,994

759	Peterson, G. & Co.,	42,112	.....	18,741	25,544	20,035
435	Peck, L. J.,	.....	.....	17,305	23,283	.....
555	Peirce, S. & Co.,	.....	.....	.....	.....	.....
529	Pringle, B.,	.....	13,454	.....	.....	.....
590	Ryan, J. & Co.,	38,032	15,727	16,420	25,055	18,901
734	Richardson, D. H.,	38,811	14,056	15,558	24,224	17,554
357	Reed, E. S.,	.....	.....	14,537	20,218	17,049
820	Riley, J. & Co.,	.....	.....	.....	17,694	.....
1,196	Sloane, W. M.,	52,854	20,975	21,251	28,764	24,504
937-1117	Schultz, A. H.,	48,546	16,431	16,038	24,276	19,418
817	Smith, J. P. & Co.,	42,467	.....	.....	.....	.....
794	Sherman, J. W.,	43,486	16,108	16,306	25,011	18,872
1,047	Sherrill, J. H. & Co.,	43,140	.....	.....	.....	.....
1,195	Spencer, U.,	34,689	13,159	.....	.....	.....
768	Sherman, B.,	48,435	17,734	.....	.....	20,672
1,169.	Severance, H. M.,	57,755	17,142	.....	.....	.....
1,228	Storrs, H. E. & Co.,	40,860	16,934	16,333	23,329	18,615
662	Soper, H. U.,	.....	13,712	14,243	22,889	16,547
1,011	Sharp, D. & Co.,	.....	.....	.....	21,508	.....
569	Thomson, C. B. & Co.,	40,585	.....	.....	.....	.....
603	Thompson, J. R.,	37,905	.....	.....	.....	.....
568	Turner, O.,	45,303	16,997	17,469	26,163	20,034
719	Van Der Karr, L. & Co.,	45,211	18,220	19,215	25,135	21,640
395	Vernam, J. & Co.,	38,616	14,434	15,325	22,191	17,721
93	Van Valkenburgh, A. & Co.,	36,656	.....	.....	.....	.....
816	Vernam, A.,	.....	.....	13,348	19,816	15,472
1,121	Wright, J. T. & Co.,	43,486	16,108	16,306	25,001	18,872

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 287.	No. 288.	OLD LANE.		
				No. 289.	No. 290.	No. 291.
	Engineers' estimate, .....	\$35,955	\$12,904			
1,199	Williams, H. E., .....	29,739	13,327	.....	.....	.....
902	Walker, W., .....	39,192	14,263	.....	.....	.....
1,110	Williams, G. & Co., .....	43,317	17,451	.....	.....	.....
784	Woodworth, S., .....	42,018	17,084	.....	.....	.....
223	Wildner, A., .....	35,407	12,995	18,439	25,350	28,750
542	Wagner, D. & Co., .....	38,642	15,160	12,891	.....	16,515
				15,352	.....	.....

## BIDS ON SECTION WORK—(CONTINUED.)

No. of petition.	NAMES OF BIDDERS.	INDEPENDENT LISTS AT HOLLEY.			Orr's bridge section.
		No. 289.	No. 290.	No. 291.	
	Engineers' estimate,.....	.....	.....	\$3,151	
362	Barnard, A.....	8,348	57,532.	3,310	22,309
317	Butler, O., jun. & Co.....	9,359	67,641	3,266	25,132
121	Beebee, J. L. & Co.....	8,230	73,857	3,187	.....
1,178	Ball, S. & Co.....	8,009	63,906	3,807	.....
1,160	Bell, S. & Co.....	7,623	98,802	2,953	.....
783	Bloss, W. C. & Co.....	7,866	63,621	.....	.....
761	Breed, J. & Co.....	8,818	73,587	.....	.....
1,023	Barry, M. & Co.....	11,762	103,290	5,109	.....
361	Bridges, E. T. & Co.....	8,721	70,542	3,207	.....
848	Burns, J.....	.....	.....	3,977	.....
646	Cady, H. & Co.....	9,020	75,155	3,736	.....
1,055	Clyde, M. A. & Co.....	9,794	83,430	3,862	33,116
8	Charliff, O.....	8,508	71,674	3,486	.....
868	Candee, W. & Co.....	8,853	56,890	3,309	.....
1,181	Callender, G. F. & Co.....	9,141	55,370	3,714	.....
49	Colton, J. C. & Co.....	10,063	69,951	3,953	.....
832	Clark, O.....	7,968	71,133	3,004	28,854
321	Chamberlain, C. T. & Co.....	9,843	78,653	3,778	.....
681	Cochrane, J. & Co.....	.....	75,767	.....	.....
1,084	De Graw, C. J. & Co.....	8,126	49,808	3,124	.....

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	INDEPENDENT LINE AT HOLLEY.			Orr's bridge section
		No. 289.	No. 290.	No. 291.	
	Engineers' estimate,.....			\$3,151	
83	Douglass, A. W. & Co.....	10,414	87,472	3,850	29,785
408	Ellicott, J. & Co.....	9,587	84,075	3,761	.....
1,221	Everett, S. & Co.....	12,077	142,092	5,135	29,526
736	Gray, J. J.....	7,494	62,867	2,886	.....
46	Grant, L. A. G. B.,.....	9,926	84,533	3,877	.....
175	Hard, G. & Co.....	9,337	68,858	3,900	.....
188	Harrington, M. A. & Co.....	8,434	63,776	3,164	.....
693	Hart, J. N. & Co.....	11,020	122,199	4,923	.....
1,195	Hooker H. E.....	10,293	73,486	4,181	.....
499	Hayes, J.....	.....	.....	.....	27,822
535	Hard, G.....	.....	.....	.....	25,878
326	Ingraham, J.....	9,491	69,275	3,741	.....
826	Johnson, W. & Co.....	8,619	70,980	3,339	.....
715 & 717	Kingsley, A. & Co.....	10,211	79,582	4,209	25,825
481	King, J. B. & Co.....	13,933	71,415	3,317	26,592
916	Lyman, T. A. E.....	10,093	78,019	3,921	.....
34	Moore, C. H. & Co.....	10,821	84,502	4,311	29,348
162	Milliner, J. P. & Co.....	9,463	76,338	3,546	.....
235	Meach, H.,.....	10,119	90,026	3,729	.....
125	McCabe, J.,.....	8,967	71,049	3,809	.....

1,209	McCartney, H. & Co.	7,158	54,576	2,908	.....
1,156	Mills, H. P. & Co.	8,395	70,696	3,241	.....
900	Mills, T. G. & Co.	9,336	61,367	4,455	.....
1,070	Nichols, J. H.	9,489	53,477	3,807	23,019
1,235	Niven, A. H.	10,950	70,067	4,302	.....
529	Pringle, B.	7,127	70,532	2,851	.....
86	Phillips, L. H.	9,495	86,242	3,697	28,040
411	Peck, L. J.	11,284	118,948	4,439	34,266
759	Peterson, G. & Co.	9,858	70,530	3,867	.....
734	Richardson, D. H.	9,489	72,943	3,719	25,260
817	Smith, J. P. & Co.	10,019	83,506	3,923	.....
1,117	Schultz, A. H.	10,093	70,943	3,921	.....
937	Schultz, A. H.	.....	.....	4,177	26,218
794	Sherman, J. W.	9,837	83,628	3,975	.....
1,169	Severance H. M.	10,583	76,715	4,066	.....
1,228	Storrs, H. E. & Co.	10,060	76,277	4,337	.....
195	Spencer, U.	8,197	77,755	3,186	.....
768	Sherman, B.	10,853	84,698	.....	.....
558	Turner, O.	10,532	84,785	4,208	.....
603	Thompson, J. R.	.....	.....	.....	24,161
206	Thompson, J. R.	.....	60,756	.....	.....
719	Van Der Kar, L. & Co.	10,818	64,891	4,322	.....
395	Vernam, J. & Co.	8,820	72,157	3,364	27,111
816	Vernam, A.	.....	.....	.....	23,399
1,110	Williams, G. & Co.	10,702	76,707	4,462	.....
542	Wagner, D. & Co.	9,148	.....	.....	.....
223	Wilder, A.	.....	63,718	.....	.....

# BIDS ON SECTION WORK--(CONTINUED.)

INDEPENDENT LINE AT HOLLEY.				Orr's bridge section
No. 289.	No. 290.	No. 291.		
		\$3,151		
		29,785		

1,066	Pr	& Co.	7,158	54,576	2,908	.....
529	Pec	Co.	8,395	70,696	3,241	.....
411	Reed,	Co.	9,336	61,367	4,455	.....
357	Ryan,	.....	9,489	53,477	3,807	23,019
390	Sloane,	.....	10,950	70,067	4,302	.....
1,196	Soper, H.	.....	7,127	70,532	2,851	.....
662	Schultz, A.	.....	9,495	86,242	3,697	28,040
937		.....	11,284	118,948	4,439	34,266
		.....	9,858	70,530	3,867	.....
		.....	9,489	72,943	3,719	25,260
		.....	10,019	83,506	3,923	.....
		.....	10,093	70,943	3,921	.....
		.....	.....	.....	4,177	26,218
		.....	9,837	83,628	3,975	.....
		.....	10,583	76,715	4,066	.....
		.....	10,060	76,277	4,337	.....
		.....	8,197	77,755	3,186	.....
		.....	10,853	84,698	.....	.....
		.....	10,532	84,785	4,208	.....
		.....	.....	.....	.....	24,161
		.....	.....	60,756	.....	.....
		.....	10,818	64,891	4,322	.....
		.....	8,820	72,157	3,364	27,111
		.....	.....	.....	.....	23,399
		.....	10,702	76,707	4,452	.....
		.....	9,148	.....	.....	.....
		.....	.....	63,718	.....	.....



## BIDS ON SECTION WORK—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	No. 292.	No. 293.	No. 294.	No. 295.	No. 296.
	Engineers' estimate,.....	\$18,226	\$15,889	\$18,319	\$15,881	\$14,438
361	Bridges, E. T. & Co.,.....	19,927	.....	.....	.....	.....
79	Burrell, T.,.....	20,267	18,246	21,164	18,569	17,804
317	Butler, O. J. & Co.,.....	18,006	14,770	18,857	16,781	16,019
171	Beebee, J. L. & Co.,.....	18,298	16,146	19,658	17,908	16,666
1,178	Ball, S. & Co.,.....	18,330	16,257	18,503	.....	.....
798	Buell, W.,.....	23,032	20,305	24,312	20,792	19,747
954	Barton, D. R. & Co.,.....	19,782	17,627	20,758	17,942	17,326
474	Britton, J. W. & Co.,.....	17,285	15,383	18,181	15,151	14,488
1,023	Barry, M. & Co.,.....	12,746	24,394	29,463	25,063	23,788
402	Bliss, R. & Co.,.....	18,531	16,911	23,337	21,551	16,658
646	Cady, H. & Co.,.....	18,531	16,539	19,541	16,901	16,136
1,055	Clyde, M. A. & Co.,.....	21,424	19,844	.....	.....	.....
3	Charliff, O.,.....	18,394	16,393	19,363	16,157	14,928
868	Candee, W. & Co.,.....	18,011	16,667	19,640	17,000	16,235
1,026	Candee, D. & Co.,.....	17,473	15,819	18,250	16,050	15,413
49	Colton, J. C. & Co.,.....	20,154	17,984	23,147	20,721	18,603
364	Clark, S. & Co.,.....	18,207	16,165	19,167	15,613	14,848
1,024	De Graw, C. J. & Co.,.....	15,860	.....	.....	.....	.....
94	Douglas, A. W. & Co.,.....	.....	.....	20,763	.....	.....
408	Ellicott, J. & Co.,.....	18,966	17,073	19,817	17,853	16,639
46	Grant, L. A. G. B.,.....	20,267	18,246	21,209	18,569	17,804

175	Hard, G. & Co., .....	18,568	17,272	19,887	18,139	15,302
188	Harrington, M. A. & Co., .....	18,400	16,410	.....	.....	16,427
230	Hinds, F. & Co., .....	19,499	17,504	20,920	19,076	17,660
693	Hart, J. M. & Co., .....	20,361	.....	.....	.....	.....
1,195	Hooker, H. E., .....	19,721	17,675	20,747	18,032	17,267
1,115	Harrington, M. A., .....	.....	.....	18,830	16,907	.....
1,006	Hawley, A., .....	.....	.....	.....	17,144	.....
326	Ingraham, J., .....	18,301	16,399	19,197	16,723	16,379
481	King, J. B. & Co., .....	17,807	15,832	18,999	17,561	16,019
715	Kingsley, A. & Co., .....	20,336	19,369	24,177	22,141	15,472
780	Learned, C. G. & Co., .....	.....	.....	.....	.....	23,696
912-916	Lyman, T. A. E. & Co., .....	20,192	19,225	24,033	21,997	15,955
300	Loomis, H. & Co., .....	.....	.....	.....	12,342	23,129
34	Moore, C. H. & Co., .....	20,019	17,858	21,625	19,609	18,208
235	Meach, H., .....	21,289	18,878	21,717	18,725	18,373
1,156	Mills, H. P. & Co., .....	16,313	14,555	17,172	14,884	14,221
900	Mills, T. G. & Co., .....	18,285	16,277	19,290	16,650	15,885
592	Morgan, D. S., .....	17,937	16,372	19,356	15,716	15,951
948	McDonald, A. P., .....	19,841	17,717	20,865	18,049	17,233
1,066	Nichols, J. H., .....	20,519	18,168	21,607	18,615	17,748
529	Pringle, B., .....	16,969	13,518	.....	.....	.....
411	Peck, L. J., .....	22,476	20,042	26,353	22,481	20,329
357	Reed, E. S., .....	17,947	15,914	18,907	16,267	15,502
390	Ryan, J. & Co., .....	19,227	17,201	21,664	19,615	17,948
1,196	Sloane, W. M., .....	25,183	22,456	26,463	23,943	21,923
662	Soper, H. U., .....	18,538	16,393	18,806	16,442	15,066
937	Schultz, A. H., .....	20,192	19,225	24,033	21,997	23,129

## BIDS ON SECTION WORK—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	No. 292.	No. 293.	No. 294.	No. 295.	No. 296.
	Engineers' estimate, .....	\$18,226	\$15,889	\$18,319	\$15,881	\$14,438
361	Bridges, E. T. & Co., .....	19,927	.....	.....	.....	.....
79	Burrell, T., .....	20,267	18,246	21,164	18,569	17,804
317	Butler, O. J. & Co., .....	18,000	14,770	18,857	16,781	16,019
171	Beebe, J. L. & Co., .....	18,298	16,146	19,658	17,908	16,666
1,178	Ball, S. & Co., .....	18,330	16,257	18,503	.....	.....
798	Buell, W., .....	23,032	20,305	24,312	20,792	19,747
954	Barton, D. R. & Co., .....	19,782	17,627	20,758	17,942	17,326
474	Britton, J. W. & Co., .....	17,285	15,383	18,181	15,151	14,488
1,023	Barry, M. & Co., .....	12,746	24,394	29,463	25,063	23,788
402	Bliss, R. & Co., .....	18,531	16,911	23,337	21,551	16,658
646	Cady, H. & Co., .....	18,531	16,539	19,541	16,901	16,136
1,055	Clyde, M. A. & Co., .....	21,424	19,844	.....	.....	.....
3	Charliff, O., .....	18,394	16,393	19,363	16,157	14,928
868	Candee, W. & Co., .....	18,011	16,667	19,640	17,000	16,235
1,028	Candee, D. & Co., .....	17,473	15,819	18,250	16,050	15,413
49	Colton, J. C. & Co., .....	20,154	17,984	23,147	20,721	18,603
364	Clark, S. & Co., .....	18,207	16,165	19,167	15,613	14,848
1,024	De Graw, C. J. & Co., .....	15,860	.....	.....	.....	.....
94	Douglass, A. W. & Co., .....	.....	.....	20,763	.....	.....
408	Ellcott, J. & Co., .....	18,966	17,073	19,817	17,353	16,689
46	Grant, L. A. G. B., .....	20,267	18,246	21,209	18,569	17,804

175	Hard, G. & Co.,	18,568	17,272	19,887	18,139	15,302
188	Harrington, M. A. & Co.,	18,400	16,410	.....	.....	16,427
280	Hinds, F. & Co.,	19,499	17,504	20,920	19,076	17,660
693	Hart, J. M. & Co.,	20,361	.....	.....	.....	.....
1,195	Hooker, H. E.,	19,721	17,675	20,747	18,032	17,267
1,115	Harrington, M. A.,	.....	.....	18,830	16,907	.....
1,006	Hawley, A.,	.....	.....	.....	17,144	.....
326	Ingraham, J.,	18,301	16,399	19,197	16,783	16,379
481	King, J. B. & Co.,	17,807	15,832	18,999	17,561	16,019
715	Kingsley, A. & Co.,	20,336	19,369	24,177	22,141	15,472
780	Learned, C. G. & Co.,	.....	.....	.....	.....	23,696
912-916	Lyman, T. A. E. & Co.,	20,192	19,225	24,033	21,997	15,955
300	Loomis, H. & Co.,	.....	.....	.....	12,342	23,129
34	Moore, C. H. & Co.,	20,019	17,858	21,625	19,609	.....
235	Meach, H.,	21,289	18,878	21,717	18,725	18,208
1,156	Mills, H. P. & Co.,	16,313	14,555	17,172	14,884	18,373
900	Mills, T. G. & Co.,	18,285	16,277	19,290	16,650	14,221
592	Morgan, D. S.,	17,937	16,372	19,356	16,716	15,885
948	McDonald, A. P.,	19,841	17,717	20,865	18,049	15,951
1,066	Nichols, J. H.,	20,519	18,168	21,607	18,615	17,233
529	Pringle, B.,	16,969	13,518	.....	.....	17,748
411	Peck, L. J.,	22,476	20,042	26,353	22,481	.....
357	Reed, E. S.,	17,947	15,914	18,907	16,267	20,329
390	Ryan, J. & Co.,	19,227	17,201	21,664	19,615	15,502
1,196	Sloane, W. M.,	25,183	22,456	26,463	23,943	17,948
662	Soper, H. U.,	18,538	16,393	18,806	16,442	21,923
937	Schultz, A. H.,	20,193	19,225	24,038	21,997	15,056
						23,129

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 292.	No. 293.	No. 294.	No. 295.	No. 296.
		\$18,276	\$15,889	\$18,319	\$15,881	\$14,438
794	Sherman, J. W.,.....	19,693	17,660	20,608	17,968	17,303
768	Sherman, B.,.....	21,689	19,384	22,700	19,708	18,841
1,169	Severance, H. M.,.....	22,222	19,790	23,356	20,488	19,270
1,228	Storrs, H. E. & Co.,.....	20,747	18,615	21,753	18,937	18,121
195	Spencer, U.,.....	17,954	15,916	18,923	15,717	15,003
558	Turner, O.,.....	20,495	18,478	21,445	17,806	18,041
719	Van Der Karr, L. & Co.,.....	21,423	19,412	22,401	19,761	17,996
395	Vernam, J. & Co.,.....	18,341	16,367	19,265	18,728	15,666
293	Washburn, J. C.,.....	23,609	20,537	26,123	21,471	20,553
1,121	Wright, J. T. & Co.,.....	19,693	17,660	20,608	17,968	17,203
784	Woodworth, S.,.....	21,038	18,754	22,098	19,358	18,393
1,110	Williams, G. & Co.,... ..	21,190	18,864	22,269	19,843	18,925

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 297.	No. 298.	No. 299.	No. 300.	No. 301.
	Engineers' estimate, .....	\$13,656	\$16,648	\$13,866	\$14,101	\$13,537
402	Bliss, R. & Co., .....	16,489	16,997	16,025	.....	.....
79	Burrell, T., .....	16,999	18,480	17,184	17,529	19,014
317	Butler, O. jr. & Co., .....	15,116	14,741	14,709	14,960	14,588
171	Beebee, J. L. & Co., .....	15,339	16,398	15,670	15,511	15,247
156	Buell, W., .....	18,752	19,169	19,012	19,472	21,427
951	Barton, D. R. & Co., .....	16,295	17,718	16,518	16,961	16,518
1,023	Barry, M. & Co., .....	22,448	22,840	21,407	21,913	22,898
474	Britton, J. W. & Co., .....	13,830	15,005	13,994	14,293	13,989
648	Cady, H. & Co., .....	15,825	17,208	16,043	15,911	15,565
3	Charliff, O., .....	14,729	16,197	14,811	14,633	14,328
1,026	Candee, D. & Co., .....	15,336	16,667	15,508	15,830	15,504
49	Colton, J. C. & Co., .....	17,690	18,860	17,919	18,333	17,918
364	Clark, S. & Co., .....	14,083	15,446	14,278	14,623	14,277
868	Candee, W. & Co., .....	15,470	16,832	15,710	16,010	15,661
616	Copeland, S. D. & Co., .....	.....	.....	.....	.....	15,379
408	Ellicott, J. & Co., .....	15,950	17,406	16,107	16,429	16,108
46	Grant, L. A. G. B., .....	16,999	18,430	17,184	17,522	17,185
1,213	Goodrich, H., .....	.....	.....	.....	16,146	16,341
175	Hard, G. & Co., .....	16,610	18,109	15,837	16,317	15,786
280	Hinds, F. & Co., .....	17,680	18,687	17,459	15,835	.....
243	Hughes, J. B., .....	15,801	16,820	15,435	15,933	.....

# BIDS ON SECTION WORK—(CONTINUED.)

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[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	INDEPENDENT BIDS AT HOLLEY.			Orr's bridge section
		No. 289.	No. 290.	No. 291.	
	Engineers' estimate,.....			\$3,151	
83	Douglass, A. W. & Co.....	10,414	87,472	3,850	29,785
408	Ellicott, J. & Co.....	9,587	84,075	3,761	.....
1,221	Everett, S. & Co.....	12,077	142,092	5,135	29,526
736	Gray, J. J.....	7,494	62,867	2,886	.....
46	Grant, L. A. G. B., .....	9,926	84,533	3,877	.....
175	Hard, G. & Co.....	9,337	68,858	3,900	.....
188	Harrington, M. A. & Co.....	8,434	63,776	3,164	.....
693	Hart, J. N. & Co.....	11,020	122,199	4,923	.....
1,195	Hooker H. E.....	10,293	73,486	4,181	.....
499	Hayes, J.....	.....	.....	.....	27,822
535	Hard, G.....	.....	.....	.....	25,878
326	Ingraham, J.....	9,491	69,275.	3,741	.....
826	Johnson, W. & Co.....	8,619	70,980	3,339	.....
715 & 717	Kingsley, A. & Co.....	10,211	79,582	4,209	25,825
481	King, J. B. & Co.....	13,933	71,415	3,317	26,592
916	Lyman, T. A. E.....	10,093	78,919	3,921	.....
34	Moore, C. H. & Co.....	10,821	84,502	4,311	29,348
162	Milliner, J. P. & Co.....	9,463	76,338	3,546	.....
235	Meach, H.,.....	10,119	90,026	3,729	.....
125	McCabe, J.,.....	8,967	71,049	3,809	.....

1,209	McCartney, H. & Co.	7,158	54,576	2,908	.....
1,156	Mills, H. P. & Co.	8,395	70,696	3,241	.....
900	Mills, T. G. & Co.	9,336	61,367	4,455	.....
1,070	Nichols, J. H.	9,489	53,477	3,807	23,019
1,235	Niven, A. H.	10,950	70,067	4,302	.....
529	Pringle, B.	7,127	70,532	2,851	.....
86	Phillips, L. H.	9,495	86,242	3,697	28,040
411	Peck, L. J.	11,284	118,948	4,439	34,266
759	Peterson, G. & Co.	9,858	70,530	3,867	.....
734	Richardson, D. H.	9,489	72,943	3,719	25,260
817	Smith, J. P. & Co.	10,019	83,506	3,923	.....
1,117	Schultz, A. H.	10,093	70,943	3,921	.....
937	Schultz, A. H.	.....	.....	4,177	26,218
794	Sherman, J. W.	9,837	83,628	3,975	.....
1,169	Severance H. M.	10,583	76,715	4,066	.....
1,228	Storrs, H. E. & Co.	10,060	76,277	4,337	.....
1,195	Spencer, U.	8,197	77,755	3,196	.....
768	Sherman, B.	10,853	84,698	.....	.....
558	Turner, O.	10,532	84,785	4,208	.....
603	Thompson, J. R.	.....	.....	.....	24,161
206	Thompson, J. R.	.....	60,756	.....	.....
719	Van Der Kar, L. & Co.	10,818	64,891	4,322	.....
395	Vernam, J. & Co.	8,820	72,157	3,364	27,111
816	Vernam, A.	.....	.....	.....	23,399
1,110	Williams, G. & Co.	10,702	76,707	4,462	.....
542	Wagner, D. & Co.	9,148	.....	.....	.....
223	Wilder, A.	.....	63,718	.....	.....



## BIDS ON SECTION WORK—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	No. 292.	No. 293.	No. 294.	No. 295.	No. 296.
	Engineers' estimate,.....	\$18,226	\$15,889	\$18,319	\$15,881	\$14,438
361	Bridges, E. T. & Co.,.....	19,927	.....	.....	.....	.....
79	Burrell, T.,.....	20,267	18,246	21,164	18,569	17,804
317	Butler, O. J. & Co.,.....	18,009	14,770	18,857	16,781	16,019
171	Beebe, J. L. & Co.,.....	18,298	16,146	19,658	17,908	16,666
1,178	Ball, S. & Co.,.....	18,330	16,257	18,503	.....	.....
798	Buell, W.,.....	23,032	20,305	24,312	20,792	19,747
954	Barton, D. R. & Co.,.....	19,782	17,627	20,768	17,942	17,326
474	Britton, J. W. & Co.,.....	17,285	15,383	18,181	15,151	14,488
1,023	Barry, M. & Co.,.....	12,746	24,394	29,463	25,063	23,788
402	Bliss, R. & Co.,.....	18,531	16,911	23,387	21,551	16,658
646	Cady, H. & Co.,.....	18,531	16,539	19,541	16,901	16,136
1,055	Clyde, M. A. & Co.,.....	21,424	19,844	.....	.....	.....
3	Charliff, O.,.....	18,394	16,393	19,363	16,157	14,928
868	Candee, W. & Co.,.....	18,011	16,667	19,640	17,000	16,235
1,026	Candee, D. & Co.,.....	17,473	15,819	18,250	16,050	15,413
49	Colton, J. C. & Co.,.....	20,154	17,984	23,147	20,721	18,603
364	Clark, S. & Co.,.....	18,207	16,165	19,167	15,613	14,848
1,034	De Graw, C. J. & Co.,.....	15,860	.....	.....	.....	.....
94	Douglas, A. W. & Co.,.....	.....	.....	20,763	.....	.....
408	Ellicott, J. & Co.,.....	18,966	17,073	19,817	17,353	16,689
46	Grant, L. A. G. B.,.....	20,267	18,246	21,209	18,569	17,804

175	Hard, G. & Co., .....	18,568	17,272	19,887	18,129	15,302
188	Harrington, M. A. & Co., .....	18,400	16,410	.....	.....	16,427
280	Hinds, F. & Co., .....	19,499	17,504	20,920	19,076	17,660
693	Hart, J. M. & Co., .....	20,361	.....	.....	.....	.....
1,195	Hooker, H. E., .....	19,721	17,675	20,747	18,032	17,267
1,115	Harrington, M. A., .....	.....	.....	18,830	16,907	.....
1,006	Hawley, A., .....	.....	.....	.....	17,144	16,379
326	Ingraham, J., .....	18,301	16,399	19,197	16,733	16,019
481	King, J. B. & Co., .....	17,807	15,832	18,999	17,561	15,472
715	Kingsley, A. & Co., .....	20,336	19,369	24,177	22,141	23,696
780	Learned, O. G. & Co., .....	.....	.....	.....	.....	15,955
912-916	Lyman, T. A. E. & Co., .....	20,192	19,225	24,033	21,997	23,129
300	Loomis, H. & Co., .....	.....	.....	.....	12,342	.....
34	Moore, C. H. & Co., .....	20,019	17,858	21,625	19,609	18,208
235	Meach, H., .....	21,289	18,878	21,717	18,725	18,373
1,156	Mills, H. P. & Co., .....	16,313	14,555	17,172	14,864	14,221
900	Mills, T. G. & Co., .....	18,285	16,277	19,290	16,850	15,885
592	Morgan, D. S., .....	17,937	16,372	19,356	15,716	15,951
948	McDonald, A. P., .....	19,841	17,717	20,865	18,049	17,233
1,066	Nichols, J. H., .....	20,519	18,168	21,607	18,615	17,748
529	Pringle, B., .....	16,969	13,518	.....	.....	.....
411	Peck, L. J., .....	22,476	20,042	26,363	22,481	20,329
357	Reed, E. S., .....	17,947	15,914	18,907	16,267	15,502
390	Ryan, J. & Co., .....	19,227	17,201	21,684	19,615	17,948
1,196	Sloane, W. M., .....	25,183	22,456	26,463	22,943	21,923
662	Soper, H. U., .....	18,538	16,393	18,806	16,442	15,056
937	Schultz, A. H., .....	20,193	19,225	24,033	21,907	23,129

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 232.	No. 233.	No. 234.	No. 235.	No. 236.
		\$18,276	\$15,889	\$18,319	\$15,881	\$14,438
794	Sherman, J. W., .....	19,693	17,660	20,608	17,968	17,203
768	Sherman, B., .....	21,639	19,334	22,700	19,708	18,841
1,169	Severance, H. M., .....	22,222	19,790	23,356	20,488	19,270
1,228	Storrs, H. E. & Co., .....	20,747	18,615	21,753	18,937	18,121
195	Spencer, U., .....	17,954	15,916	18,923	15,717	15,093
568	Turner, O., .....	20,495	18,478	21,445	17,806	18,041
719	Van Der Karr, L. & Co., .....	21,423	19,412	22,401	19,761	17,996
395	Vernam, J. & Co., .....	18,341	16,367	19,265	18,728	15,666
293	Washburn, J. C., .....	23,609	20,537	26,123	21,471	20,553
1,121	Wright, J. T. & Co., .....	19,693	17,660	20,608	17,968	17,203
784	Woodworth, S., .....	21,038	18,754	22,098	19,358	18,393
1,110	Williams, G. & Co., .....	21,190	18,864	22,269	19,843	18,925

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 297.	No. 298.	No. 299.	No. 300.	No. 301.
	Engineers' estimate, .....	\$13,656	\$16,648	\$13,866	\$14,101	\$13,537
402	Bliss, R. & Co., .....	16,489	16,997	16,025	.....	.....
79	Burrell, T., .....	16,999	18,480	17,184	17,529	19,014
317	Butler, O. jr. & Co., .....	15,116	14,741	14,709	14,960	14,588
171	Beebe, J. L. & Co., .....	15,339	16,398	15,670	15,511	15,247
156	Buell, W., .....	18,752	19,169	19,012	19,472	21,427
954	Barton, D. R. & Co., .....	16,295	17,718	16,518	16,961	16,518
1,032	Barry, M. & Co., .....	22,448	22,840	21,407	21,913	22,898
474	Britton, J. W. & Co., .....	13,830	15,005	13,994	14,293	13,989
648	Cady, H. & Co., .....	15,825	17,208	16,043	15,911	15,565
3	Charliff, O., .....	14,729	16,197	14,811	14,633	14,328
1,026	Candee, D. & Co., .....	15,336	16,667	15,508	15,830	15,504
49	Colton, J. C. & Co., .....	17,690	18,860	17,919	18,333	17,918
364	Clark, S. & Co., .....	14,083	15,446	14,278	14,623	14,277
868	Candee, W. & Co., .....	15,470	16,832	15,710	16,010	15,661
616	Copeland, S. D. & Co., .....	.....	.....	.....	.....	15,379
408	Ellicott, J. & Co., .....	15,950	17,406	16,107	16,429	16,108
46	Grant, L. A. G. B., .....	16,999	18,430	17,184	17,522	17,185
1,213	Goodrich, H., .....	.....	.....	.....	16,146	16,341
175	Hard, G. & Co., .....	16,610	18,109	15,837	16,317	15,786
290	Hinds, F. & Co., .....	17,680	18,687	17,459	15,835	.....
243	Hughes, J. B., .....	15,801	16,820	15,435	15,933	.....

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 297.	No. 298.	No. 299.	No. 300.	No. 301.
		\$13,656	\$16,648	\$13,866	\$14,101	\$13,537
1,006	Hawley, A., .....	15,619	17,016	15,809	16,154	15,808
1,195	Hooker, H. E., .....	16,507	17,904	.....	.....	16,401
188	Harrington, M. A. & Co., .....	.....	.....	15,342	.....	.....
326	Ingraham, J., .....	15,305	16,566	14,487	15,719	16,022
481	King, J. B. & Co., .....	14,915	16,829	14,871	15,205	.....
715	Kingsley, A. & Co., .....	22,396	24,413	.....	.....	.....
912	Lyman, T. A. E. & Co., .....	21,829	23,846	.....	.....	.....
780	Learned, C. G. & Co., .....	16,071	.....	.....	.....	.....
34	Moore, C. H. & Co., .....	17,705	19,340	.....	.....	17,746
948	McDonald, A. P. & Co., .....	16,417	17,871	16,625	16,993	16,615
592	Morgan, D. S., .....	15,081	.....	15,633	16,001	15,631
900	Mills, T. G. & Co., .....	15,095	16,284	15,315	15,660	15,317
1,156	Mills, H. P. & Co., .....	.....	.....	13,445	13,721	13,444
1,066	Niehols, J. H., .....	16,881	18,426	17,102	17,493	17,094
411	Peck, L. J., .....	19,409	21,916	20,523	20,029	19,583
357	Reed, E. S., .....	15,201	16,254	15,409	15,777	.....
590	Ryan, J. & Co., .....	17,086	18,505	17,302	17,693	17,300
1,196	Sloane, W. M., .....	20,903	22,720	21,163	21,623	21,171
662	Soper, H. U. & Co., .....	14,660	16,750	14,719	14,468	14,336
937.	Schultz, A. H., .....	21,829	23,846	.....	.....	.....
794	Sherman, J. W., .....	16,463	18,000	16,638	16,978	16,634

195	Spencer, U.,	14,284	15,560	14,471	14,793	14,468
1,169	Severance, H. M.,	18,363	20,067	18,586	19,000	18,583
1,768	Sherman, B.,	17,989	19,638	18,195	18,586	18,202
238	Stage, J. N.,	.....	.....	14,098	.....	.....
1,228	Storrs, H. E. & Co.,	17,215	18,838	17,513	17,881	17,503
558	Turner, Otis,	17,281	18,677	17,471	16,816	17,472
719	Van Der Karr, L. & Co.,	18,221	19,514	18,426	18,771	18,422
395	Vernam, J. & Co.,	14,952	16,223	15,134	15,456	15,610
293	Washburn, J. C.,	19,697	21,029	19,869	20,283	19,861
1,121	Wright, J. T. & Co.,	16,463	18,000	16,633	16,978	16,634
1,110	Williams, G. & Co.,	18,007	19,642	18,241	18,655	18,251
784	Woodworth, S.,	17,628	19,190	17,703	17,324	.....
1,078	Whitney, J.,	.....	.....	16,929	.....	.....

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 302.	No. 303.	No. 304.	No. 305.	No. 307.
		\$16,849	\$15,554	\$14,892	\$18,629	\$13,579
79	Burrell, T. ....	19,614	18,039	17,514	21,588	15,467
317	Butler, O. jun. & Co. ....	16,934	15,945	15,272	17,793	.....
171	Beebee, J. L. & Co. ....	15,942	15,655	14,824	.....	12,521
156	Buell, W. ....	21,427	23,152	19,452	24,585	15,622
1,023	Barry, M. & Co. ....	25,909	24,245	23,123	25,323	14,536
954-6	Barton, D. R. & Co. ....	18,561	17,412	16,745	19,160	18,444
474	Britton, J. W. & Co. ....	15,574	14,723	13,993	17,167	12,304
352	Brown, G. ....	.....	.....	.....	20,710	.....
646	Cady, H. & Co. ....	17,393	15,893	15,422	19,440	13,878
616	Copeland, S. D. ....	17,173	17,217	.....	.....	13,494
3	Charliff, O. ....	16,515	15,603	15,094	.....	13,231
1,026	Candee, D. & Co. ....	17,222	16,318	.....	18,770	13,478
49	Colton, J. C. & Co. ....	20,118	17,877	17,317	21,612	15,237
868	Candee, W. & Co. ....	17,495	16,510	15,995	20,060	14,045
364	Clark, S. & Co. ....	16,108	15,391	14,820	18,531	12,741
1,055	Clyde, M. A. & Co. ....	.....	.....	16,692	20,777	14,441
139	Collins, A. ....	.....	.....	14,495	22,652	16,045
388	Crydeler, A. ....	.....	.....	.....	21,733	.....
1,232	Cassidy, J. ....	.....	.....	.....	15,478	.....
322	Clark, O. ....	.....	.....	.....	18,697	.....
83	Douglass, A. W. ....	.....	.....	.....	19,595	.....
609	Daniels, C. A. ....	.....	.....	.....	.....	12,374

611	Daniels, D. H.	17,830	16,935	16,540	22,003	12,331
408	Ellicott, J. & Co.	19,023	18,057	17,589	22,195	14,935
46	Grant, L. A. G. B.					15,467
1,213	Goodrich, H.					13,274
175	Hard, G. & Co.	17,664	17,742	16,092	19,047	13,627
1,214-15	Harrington, M. A.	17,773	16,252	14,754	19,411	14,609
1,195	Hooker, H. E.	18,227	17,250	16,727	22,512	14,257
1,006	Hawley A.	17,642	16,670	16,164	20,747	15,587
391	Hopkins, H. & Co.			17,377	22,404	13,973
280	Hinds, F. & Co.			16,666	21,874	17,125
240-243	Hughes, J. B.			15,967	21,063	14,543
693	Hart, J. N.					14,326
499	Hayes, J.					13,926
326	Ingraham, J.	17,841	16,863	16,319	20,777	16,055
73	Jackson, J. jun.					15,488
715	Kingsley, A. & Co.	20,513			22,299	11,067
481	King, J. B. & Co.			14,891	18,665	15,066
912	Lyman, T. A. E. & Co.	19,946			21,669	14,596
300	Loomis, H. & Co.					13,021
34	Moore, C. H. & Co.	19,936	19,765	17,137	20,461	16,045
948	McDonald, A. P.	18,577	17,009	16,977	21,009	13,347
1,085	Mills, M. H. & Co.	16,248	15,357	15,019	19,015	14,528
900	Mills, T. G. & Co.	17,130	16,140	15,520	18,668	
1,210	Midler, L. J. & Co.		14,528	14,367	18,580	
235	Meach, H.				22,652	
298	Meigs, H. & Co.					
1,066	Nichols, J. H.	18,574	17,003	16,952	20,800	



## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 302.	No. 303.	No. 304.	No. 305.	No. 307.
		\$16,849	\$15,554	\$14,892	\$18,629	\$13,579
411	Peck, L. J.	19,625	18,597	16,639	20,759	15,789
820	Palley, J.				14,593	
529	Pringle, B.					11,989
590	Ryan, J. & Co.	19,367	17,737	16,129	19,633	14,291
357	Reed, E. S.				20,372	13,681
1,196	Sloane, W. M.				27,879	18,534
662	Soper, H. U.	23,603	22,303	21,603	19,251	
937	Schultz, A. H.	17,400	15,994	15,878		
794	Sherman, J. W.	19,946			21,669	15,488
195	Spencer, U.	18,478	17,518	17,088	22,439	15,352
1,169	Severance, H. M.	16,173	15,257	14,255	17,607	12,535
768	Sherman, B.	20,788	19,624	20,062	24,322	17,419
1,228	Storrs, H. E. & Co.	20,278	19,182	18,644	24,073	16,563
558	Stage, J. N.	19,471	18,437	17,915	22,900	15,921
618	Turner, Otis.			14,916	18,851	
719	Tousley, O.	19,304	18,392	17,826	22,513	15,919
895	Van Der Karr, L. & Co.	20,250				13,212
1,121	Vernam, J. & Co.	17,432	19,269	18,706	22,670	16,670
1,110	Wright, J. T. & Co.	18,478	16,448	16,440	19,200	13,586
293	Williams, G. & Co.	20,437	17,518	17,088	22,439	14,823
	Washburn, J. C.	22,047	19,267		23,715	16,329
			20,859	20,065	22,577	18,119

## BIDS ON SECTION WORK—(CONTINUED.)

No. of position.	NAMES OF BIDDERS.	No. 308.	No. 309.	No. 310.	No. 311.
	Engineers' estimate, .....	\$16,689	\$15,167	\$11,310	\$23,469
79	Burrell, T. ....	19,067	17,217	13,446	27,549
171	Beebe, J. L. & Co. ....	17,094	14,939	11,738	22,359
308	Barton, D. R. & Co. ....	18,832	17,013	.....	.....
1,023.	Barry, M. & Co., .....	24,468	23,818	17,884	34,616
474	Britton, J. W. & Co. ....	15,684	14,130	10,652	22,868
156	Buell, W. ....	22,132	19,713	14,686	31,513
352	Brown, G. ....	.....	17,990	12,505	29,409
956	Barton, D. R. & Co. ....	.....	.....	13,304	25,233
388	Crydeler, W. ....	18,083	17,450	13,821	.....
646	Cady H. & Co., .....	17,862	16,086	11,788	24,571
616	Copeland, S. D. & Co. ....	16,986	15,910	11,962	.....
1,055	Clyde, M. A. ....	17,415	.....	.....	25,340
3	Charliff, O. ....	16,951	15,296	11,455	24,326
1,026	Candee, D. & Co., .....	16,646	15,194	11,501	23,969
49	Colton, J. C. & Co. ....	19,461	17,525	13,651	26,827
868	Candee, W. & Co. ....	18,005	16,190	12,135	25,667
364	Clark, S. & Co. ....	15,869	15,051	11,210	23,825
332	Clark, O. ....	.....	.....	.....	23,959
104	Collins, W. P. ....	.....	.....	.....	22,070
609	Daniels, C. A. ....	15,902	14,992	.....	.....
68	Duncan, C. W. ....	16,018	14,241	.....	.....

## BIDS ON SECTION WORK—(CONTINUED.)

No. of pro- position.	NAMES OF BIDDERS.	No. 308.	No. 309.	No. 310.	No. 311.
	Engineers' estimate,.....	\$16,689	\$15,167	\$11,310	\$23,469
311	Daniels, D. H. ....	.....	.....	11,227	.....
148	Daniels, W. P. ....	.....	.....	.....	26,838
408	Ellicott, J. & Co. ....	18,511	16,622	12,532	27,026
1,222	Everett, S. & Co. ....	.....	.....	.....	29,929
46	Grant, L. A. G. B. ....	18,867	17,217	13,446	30,661
1,213	Goodrich, H. ....	17,799	.....	.....	.....
295	Hayes, J. ....	18,184	15,886	11,879	24,134
243	Hughes, J. B. ....	18,149	.....	.....	26,208
535	Hard, G. ....	17,759	15,465	12,291	.....
693	Hart, J. N. & Co. ....	20,101	18,037	.....	.....
1,195	Hooker, H. E. ....	28,593	16,817	12,427	26,262
1,006	Hawley, A. ....	18,193	16,339	12,347	25,736
69	Hunter, D. ....	.....	.....	10,663	.....
280	Hinds, F. & Co. ....	.....	.....	.....	25,227
1,214	Harrington, C. A. ....	.....	.....	.....	23,274
391	Hopkins, H. & Co. ....	.....	.....	.....	27,272
413	Hilton, J. & K. ....	.....	.....	.....	22,478
1,091	Hitchcock, M. C. ....	.....	.....	.....	19,928
326	Ingraham, J. ....	18,310	16,534	12,454	25,857
73	Jackson, J. jun. ....	17,823	16,133	12,597	24,127
715	Kingsley, A. & Co. ....	19,727	19,033	14,314	29,462

481	King, J. B. & Co.	.....	.....	.....	11,640	.....	.....
566	Kneeland, S. W.	.....	.....	.....	11,212	.....	21,935
912	Lyman, T. A. E.	.....	19,160	18,466	13,873	.....	28,765
300	Loomis, H. & Co.	.....	13,511	12,422	13,395	.....	19,673
34	Moore, C. H. & Co.	.....	19,181	17,245	14,355	.....	28,060
948	McDonald, A. P.	.....	18,532	16,678	14,658	.....	26,386
298	Meigs, H. & Co.	.....	16,094	16,291	12,991	.....	21,999
1,156	Mills, H. P. & Co.	.....	15,536	14,002	10,495	.....	21,878
900	Mills, T. G. & Co.	.....	16,501	15,006	11,463	.....	22,876
592	Morgan, D. S.	.....	.....	.....	11,948	.....	25,667
235	Meach, H.	.....	.....	.....	.....	.....	28,372
1,066	Nichols, J. W.	.....	18,488	16,673	12,658	.....	26,386
529	Pringle, B.	.....	16,040	14,358	10,677	.....	22,673
411	Peck, L. J.	.....	20,013	18,785	13,501	.....	28,312
86	Phillips, L. H.	.....	.....	.....	.....	.....	28,441
820	Paley, J.	.....	.....	.....	.....	.....	13,785
590	Ryan, J. & Co.	.....	18,011	16,356	13,222	.....	24,973
357	Reed, E. S.	.....	17,905	15,969	.....	.....	25,685
1,196	Sloane, W. M.	.....	23,550	21,251	16,067	.....	33,014
937	Schultz, A. H.	.....	19,160	18,466	13,873	.....	28,764
794	Sherman, J. W.	.....	19,193	17,183	12,940	.....	27,901
195	Spencer, U.	.....	16,066	14,454	10,829	.....	23,215
1,169	Severance, H. M.	.....	22,725	20,342	15,189	.....	32,290
768	Sherman, B.	.....	20,979	18,812	14,174	.....	30,097
1,228	Storrs, H. E. & Co.	.....	20,097	18,083	13,687	.....	28,843
618	Tousley, O. & Co.	.....	17,207	16,641	11,755	.....	24,648
1,097	Tenny, A.	.....	18,065	16,542	12,481	.....	.....

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 298.	No. 299.	No. 310.	No. 311.
	Engineers' estimate,.....	\$16,689	\$15,167	\$11,310	\$23,469
558	Turner, O.....	19,855	18,001	14,667	29,218
719	Van Der Karr, L. & Co.....	20,678	18,941	14,410	28,811
895	Vernam, J. & Co.....	17,474	16,073	12,027	25,903
293	Washburn, J. C.....	23,591	21,483	.....	28,369
1,121	Wright, J. T. & Co.....	19,193	17,183	12,940	27,901
1,110	Williams, G. & Co.....	21,105	19,579	14,319	25,580
542	Wagner, D. & Co.....	.....	.....	11,788	.....

## BIDS FOR SECTION WORK—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	No. 312.		No. 313.		No. 314.		No. 315.	
		\$13,634		\$15,915		\$15,990		\$9,609	
	Engineers' estimates,.....								
852	Brown, G.,.....	17,163						10,263	
171	Beebe, J. L. & Co.,.....	13,895		14,148		16,928		9,482	
956	Barton, D. R. & Co.,.....	16,619		16,663		21,164		10,944	
156	Buell, W.,.....	18,932		18,912		26,652			
474	Britton, J. W. & Co.,.....	14,989		15,301		19,679		9,974	
1,023	Barry, M. & Co.,.....	22,183		22,788		27,481		14,960	
79	Burrell, T.,.....			17,109		24,628		11,364	
646	Cady, H. & Co.,.....	15,093		15,491		21,296		10,257	
1,055	Clyde, M. A. & Co.,.....	15,508		15,313		19,400			
3	Charliff, O.,.....	15,108		15,213		20,186			
868	Candee, W. & Co.,.....	15,605		15,590		19,677		9,894	
1,026	Candee, D. & Co.,.....	14,212		15,169		19,193		9,622	
49	Colton, J. C. & Co.,.....	16,293		16,870		20,512		9,958	
364	Clark, S. & Co.,.....	14,365		14,439		19,814		11,078	
332	Clark, O.,.....	15,136		15,081		19,232		9,382	
388	Crydeler, W.,.....	17,448							
1,232	Cassidy, J.,.....					26,105			
1,057	Church, W. S.,.....					16,328			
148	Daniels, W. P. & Co.,.....	17,535						11,261	
621	Daniels, C. A. & Co.,.....								
68	Duncan, C. W.,.....			14,949		18,288		9,924	
84	Douglass, A. W.,.....			13,746		16,564			
						34,031			

## BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 312.	No. 313.	No. 314.	No. 315.
	Engineers' estimate, .....	\$13,634	\$15,915	\$18,990	\$9,609
408	Ellicott, J. & Co., .....	16,351	16,037	23,535	10,582
46	Grant, L. A. G. B., .....	.....	17,159	24,628	11,364
280	Hinds, F. & Co., .....	16,163	16,305	21,404	10,469
295	Hayes, J., .....	15,467	15,398	19,417	10,333
1,195	Hooker, H. E., .....	16,237	16,222	22,027	10,613
1,006	Hawley, A., .....	15,809	15,734	21,955	10,439
243	Hughes, J. B., .....	15,621	.....	.....	.....
413	Hilton, J. M. K., .....	14,196	.....	.....	.....
69	Hunter, D., .....	12,540	.....	.....	9,043
1,091	Hitchcock, W. E., .....	12,211	12,116	16,508	7,895
188	Harrington, M. A., .....	.....	14,745	19,720	.....
391	Hopkins, H. & Co., .....	.....	.....	23,679	.....
811	Hewes, H. N., .....	.....	.....	19,716	10,813
326	Ingraham, J., .....	15,894	15,939	21,328	10,503
73	Jackson, J. Jr., .....	16,025	15,778	20,347	10,559
715	Kingsley, A. & Co., .....	17,689	17,673	23,865	13,212
566	Kneeland, S. W., .....	14,256	14,472	17,367	9,390
486	King, J. B. & Co., .....	.....	.....	19,778	.....
300	Loomis, H. & Co., .....	13,457	13,714	.....	9,729
912	Lyman, T. A. E. & Co., .....	17,122	17,106	.....	13,046
34	Moore, C. H. & Co., .....	17,094	16,605	23,213	12,095

900	Mills, T. G. & Co., .....	14,389	14,496	18,695	9,871
1,156	Mills, H. P. & Co., .....	13,440	13,487	18,102	8,814
225	Meach, H., .....	17,777	.....	23,896	11,592
592	Morgan, D. S., .....	15,394	13,378	21,570	12,111
948-9	McDonald, A. P., .....	16,561	16,545	22,727	11,019
298	Meigs, H. & Co., .....	15,431	16,288	21,471	11,352
1,066	Nichols, J. H., .....	16,561	16,545	22,737	11,019
411	Peck, L. J., .....	17,061	16,956	27,984	15,173
86	Phillips, L. J., .....	15,540	.....	23,813	12,049
529	Pringle, B., .....	13,762	13,918	18,427	8,985
1,016	Peacock, J. & Co., .....	.....	.....	19,802	9,358
590	Ryan, J. & Co., .....	15,755	16,273	19,944	10,743
3-5	Reed, E. S., .....	15,245	.....	21,521	9,960
1,196	Sloane, W. M., .....	20,510	20,491	27,844	13,593
937	Schultz, A. H., .....	17,122	17,106	25,633	13,046
794	Shannehan, J. W., .....	16,873	16,558	24,443	10,914
195	Spencer, U., .....	14,295	14,873	19,014	9,659
768	Sherman, B., .....	18,307	18,110	25,957	11,967
1,100	Severance, H. M., .....	19,507	19,517	24,871	12,735
1,208	Storrs, H. E. & Co., .....	17,569	17,433	24,457	11,578
55	Turner, O., .....	17,471	17,396	23,617	11,489
618	Tousley, O., .....	14,485	15,413	19,677	10,244
1,017	Tenny, A., .....	.....	.....	.....	10,024
719	Van Der Karr, L. & Co., .....	18,246	18,351	23,324	12,209
39	Vernam, J. & Co., .....	15,351	15,486	20,251	10,083
1,12	Wright, J. T. & Co., .....	16,873	16,378	24,443	10,914
1,11	Williams, G. & Co., .....	18,209	18,251	24,800	12,108



## BIDS ON SECTION WORK—(CONTINUED.)

NOTES ON INDEPENDENT LOTS AT HOLLEY.

No. of proposition.	NAMES OF BIDDERS.	Part of 288.	No. 289.	No. 290.	No. 291.	Aggregate.
	Engineers' estimate,.....	\$3,966	\$7,872	\$71,303	\$3,151	\$86,392
783	Bloss, W. C. & Co.....	.....	7,366	63,621	.....	.....
474	Britton, J. W.....	3,873	.....	.....	.....	.....
761	Breed, Jos.....	4,608	8,818	73,587	.....	.....
317	Butler, O. Jr. & Co.....	4,661	9,359	67,641	.....	.....
362	Barnard, A.....	4,382	8,348	57,532	3,266	84,927
3	Charlick, O.....	4,499	8,503	71,674	3,310	73,572
868	Candee, Wm.....	4,570	8,853	56,890	3,486	88,162
49	Colton, J. C. & Co.....	5,228	10,063	69,951	3,309	73,622
321	Chamberlain & Bradley.....	.....	9,843	78,653	3,953	89,195
215	Curtis, D. F.....	4,340	.....	.....	3,778	.....
715	Kingsley, A. & Co.....	5,428	10,211	79,582	.....	.....
481	King, John B.....	4,526	13,933	71,415	4,209	99,430
900	Mills, T. G. & Co.....	4,793	9,336	61,367	3,317	93,191
123	McCabe, Jno. & Co.....	.....	8,957	71,049	4,455	79,951
662	Soper & Field.....	4,324	.....	.....	3,809	.....
1,011	Sharp, D. & Co.....	4,346	.....	.....	.....	.....
395	Vernam, Jno. & Co.....	4,395	8,820	72,157	.....	.....
1,223	Wilder, A.....	4,037	.....	63,718	3,364	88,736

## BIDS ON SECTION WORK—(CONTINUED.)

SOUTH LINE AT HOLLEY.

No. of proposition.	NAMES OF BIDDERS.	From A. to B.	Part of 390.	No. 391.	Aggregate.
	Engineers' estimate,.....	\$26,242	\$16,871	\$15,870	\$58,983
783	Bloss, W. C. & Co. ....	.....	13,185	14,371	.....
474	Britton, J. W. ....	.....	15,131	15,712	.....
761	Breed, Joseph. ....	.....	15,133	17,256	.....
317	Butler, O. Jr., & Co. ....	25,132	14,607	15,755	55,494
362	Barnard, A. ....	22,309	13,161	15,986	51,456
3	Charlick, O. ....	.....	13,990	16,799	.....
368	Candee, Wm. ....	.....	14,608	17,158	.....
49	Colton, J. C. & Co. ....	.....	15,452	19,129	.....
321	Chamberlain & Bradley. ....	.....	16,678	19,357	.....
215	Curtis, D. F. ....	.....	14,593	.....	.....
715	Kingsley, A. & Co. ....	25,828	17,076	19,565	62,469
481	King, J. B. ....	26,592	15,731	15,968	58,291
900	Mills, T. G. & Co. ....	.....	14,571	16,876	.....
123	McCabe, Jno. & Co. ....	.....	15,061	.....	.....
555	Pierce, S. & Co. ....	.....	16,540	.....	.....
662	Soper & Field. ....	.....	15,873	16,547	.....
1,011	Sharp, D. & Co. ....	.....	14,921	.....	.....
395	Vernam, Jno. & Co. ....	27,111	15,190	17,721	.....
816	Vernam, A. ....	23,399	13,703	15,472	52,574
1,223	Wilder, A. ....	.....	14,269	16,515	.....

## BIDS FOR MECHANICAL STRUCTURES,

On sections 207 to 315 inclusive, viz: Locks 64, 65, 66 and guard lock, Genesee Feeder, Railroad Crossing, Mud Creek Aqueduct, Culverts and Waste-weirs.

No. of propositions.	NAMES OF BIDDERS.	Look 64.		Look 65.		Look 66.	Look 65.	Look 66.	Guard Lock.
		\$23,270		\$22,952		\$28,470			\$11,858
1,1' 3	Archer, O., .....	20,974	21,191	27,900	22,786	17,923			
1' 7	Buell, W., .....	44,708	25,783	33,921					
1,1' 5	Ball, S. & Co., .....	18,282	18,664	24,174					
1,1' 5	Boyce, P., .....	20,633	21,465	28,055	22,389	18,534			
4' 3	Britton, J. W. & Co., .....				22,481	17,173			
5' 4	Chamberlain, & Co., .....	19,571	21,738	29,085	25,457	20,382			16,076
5' 1	Curtis, D. F., .....	22,519	22,713	39,569					
5' 7	Clark, J. L. & Co., .....	19,278	20,109	25,843	22,442	17,886			
6' 3	Cochrane, J. & Co., .....	19,573	20,191	26,287	23,298	19,012			
7' 9	Church, R., .....	21,837	22,355	29,904	29,144	23,434			
1' 8	Chamberlain & Edgerton, .....	21,838	22,983	31,948	25,230	21,668			17,576
1' 9	Church, W. S., .....	21,837	22,355	29,601	29,144	23,434			
1' 8	Cady, H., .....	23,734	24,028	31,181					16,485
1' 0	Culver, O., .....			32,657					
1' 8	Dodge, D. L. & Co., .....	18,608	19,344	25,093	20,903	17,065			
1' 1	Ennis, R., .....	19,738	20,440	25,992					
1' 6	Ennis, E., .....	21,857	22,320	28,346					
1' 1	Fletcher, T., .....	19,352	19,576	25,686					
1' 2	Goodrich, J. W., .....	19,761	19,849	25,949					

81	Grant, L. A. G. B., .....	22, 179	21, 910	29, 091	24, 504	19, 845	20, 660
834	Green, N. B. & Co., .....	29, 156	30, 411	37, 845	.....	.....	.....
38	Homan, B., .....	18, 239	19, 465	25, 046	.....	.....	.....
85	Hutchins, F. & Co., .....	21, 419	21, 978	29, 766	24, 701	19, 900	.....
244	Hewes, J. B., .....	21, 409	22, 340	31, 532	23, 011	20, 919	17, 374
500	Hayes, J. & Co., .....	21, 327	20, 662	26, 596	23, 446	18, 683	.....
919	Hunt, S. J., .....	22, 425	23, 016	32, 848	.....	.....	.....
167	Jerome, H. K. & Co., .....	20, 928	21, 520	25, 609	23, 684	18, 942	14, 861
12	Kingsley & James, .....	20, 455	20, 820	27, 731	23, 330	17, 764	13, 217
13, 516	Knapp, E., .....	19, 051	19, 519	25, 003	22, 442	18, 152	.....
976	Law, G., .....	25, 679	26, 225	34, 210	29, 491	23, 841	18, 641
330	Law, G., .....	22, 250	22, 022	31, 973	.....	.....	.....
347	Mirick, J. & Co., .....	22, 092	23, 542	29, 929	25, 254	19, 427	17, 517
561	Millner, J. P. & Co., .....	22, 142	21, 485	29, 297	22, 649	19, 475	.....
1,086	McCabe, J. & Co., .....	18, 823	19, 399	27, 405	22, 258	18, 185	15, 691
1,155	Mills, M. H. & Co., .....	18, 576	19, 658	25, 476	21, 283	17, 599	.....
1,60	Mills, H. P. & Co., .....	35, 578	34, 635	46, 242	.....	.....	.....
857	McGovern, T. & Co., .....	22, 891	25, 866	31, 949	.....	.....	.....
219	Mudge, S. W., .....	.....	23, 815	30, 129	25, 918	21, 037	8, 026
110	O'Neill, W. & Co., .....	22, 161	22, 619	30, 345	23, 269	19, 411	19, 295
97	Peck, L. J., .....	21, 117	21, 983	28, 493	23, 489	19, 198	.....
486	Peterson, G. & Co., .....	19, 596	20, 260	27, 571	.....	.....	.....
172	Palmeter, E. A., .....	.....	.....	.....	.....	.....	.....
731	Quinn, Jno., .....	20, 341	19, 245	27, 842	31, 053	24, 795	9, 145
1,074	Richardson, D. H., .....	22, 856	22, 817	30, 869	25, 268	20, 830	20, 915
501	Russell, J., .....	24, 156	24, 120	31, 718	31, 240	25, 857	.....
571	Smith, E. W., .....	28, 682	29, 605	40, 254	30, 201	24, 240	13, 749
	Strong, M., .....	.....	.....	.....	.....	.....	21, 332

# BIDS FOR MECHANICAL STRUCTURES—(CONTINUED.)

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[Assembly

No. of proposition.	NAMES OF BIDDERS.	Look 64.	Look 65.	Look 66.	Look 66.	Look 66.	Guard Look.
		\$23,270	\$22,952	\$28,470	.....	.....	\$11,858
905	Engineers' estimate,.....						
587	Swain, J. B. & Co., .....	20,413	21,868	32,343	24,649	18,428	.....
1,165	Seeley, L.,.....	20,037	20,230	26,314	29,071	23,422	10,944
404	Severance, H. M., .....	20,238	21,566	29,239	23,865	19,667	.....
903	Storrs, H. E., .....	22,453	23,644	31,618	25,719	20,291	15,729
1,029	Smith, P. & Co., .....	23,486	23,953	31,510	26,616	21,453	12,067
76	Stansbury, E., .....	.....	.....	.....	22,857	17,925	.....
57	Turner, Otis, .....	22,163	22,083	29,461	.....	.....	11,767
97	Vernam, J. & Co., .....	.....	20,557	27,370	22,779	18,471	.....
318	Van Valkenburgh, D. A. & Co., .....	23,571	23,910	31,823	24,702	19,013	.....
546	Vernalee, S. & Co., .....	24,478	25,304	32,082	25,970	20,620	.....
740	Wagner, D. & Co., .....	22,445	23,093	31,784	25,357	20,164	18,002
1,120	Williams, G. & Co., .....	19,962	20,674	27,718	22,994	18,870	13,719
	Wright, J. T. & Co., .....	21,837	22,355	29,601	29,144	23,434	12,824

## BIDS FOR MECHANICAL STRUCTURES—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Mad Creek Aqueduct.		Railroad crossing.
		Engineers' estimate,		
		\$33,935	\$13,529	
463	Akenhead, W. R.	28,135		
879	Baldwin, Harwood & Co.	26,994		
1,141	Boyce, P.	24,708	11,061	
1,137	Boyce & Green	26,135		
1,217	Ball, S. & S. S.	27,777	12,146	
1,089	Burchard, Bixby & Co.	29,968	14,296	
388	Clark, P. W.	28,317		
690	Chipman, P. B.	22,355	11,131	
102	Cady & Butler,	29,940	17,410	
577	Chamberlain & Edgerton,	30,933	14,739	
89	Clarke, E.	29,117		
320	Chamberlain & Bradley	31,095	14,563	
345	Clark, J. W.	26,843		
666	Caswell, N. B.	29,829		
1,084	Davidson, J.	24,161	14,331	
739	Dodge, Nellis & Co.	23,534	13,059	
1,033	De Graw, C. J. & Co.	22,355	11,013	
416	Ennis, R.	26,800		
473	Ennis, Randall & Co.	32,979		
1,079	Ellis, L. D. & Co.		12,966	
505	Ennis, E.		18,173	

## BIDS FOR MECHANICAL STRUCTURES—(CONTINUED.)

N. of proposition.	NAMES OF BIDDERS.	Mud Creek Aqueduct.		Railroad crossing.
		Engineers' estimate, .....		
		\$33, 935	\$13, 529	
292	Fletcher, T.....	24, 858	.....	
251	Goodrich, J. W.....	25, 549	.....	
895	Hadnut & Bissell.....	26, 086	.....	
457	Howell & Chadwick.....	27, 264	.....	
843	Howell & Robinson.....	32, 803	.....	
240	Hughes, J. B.....	30, 981	14, 423	
166	Jerome, H. K. & Co.....	28, 959	13, 098	
41	Keyes & Smith.....	28, 445	14, 485	
512	Knapp, E.....	23, 051	11, 345	
179	Kimball W. & Co.....	28, 080	.....	
275	Kenyon, D.....	29, 878	.....	
892	Lamoreaux, A. O.....	28, 480	.....	
373	Leach, J. & E.....	23, 645	.....	
974	Law, George.....	35, 806	13, 010	
899	Mills, T. G. & Co.....	25, 995	18, 629	
129	Mirick, J. & H.....	27, 575	13, 697	
858	Mudge, S. W.....	.....	.....	
111	Peck, L. J.....	34, 576	21, 380	
983	Palmer, H. & Co.....	19, 864	16, 419	
640	Rogers, J. C.....	25, 725	.....	
735	Richardson, D. H.....	.....	16, 713	

373	Storrs, H. E. & Co.....	29,446	13,479
272	Voorhies, W.....	28,930	.....
1,109	Williams & Moore.....	32,161	15,915
685	Williams & Palmeter.....	29,635	14,621
543	Wagner, D. & Co.....	36,241	16,089



## BIDS FOR MECHANICAL STRUCTURES—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.		Irendagott Creek Culvert.	Allen's Creek Culvert.
	Engineers' estimate,	.....		
1,140	Archer & Boyce.....		\$34,675	\$15,068
694	Britton & Swain.....		26,016	9,220
728	Bull & Hill.....		28,144	12,388
1,143	Boyce, P.....		40,623	14,761
1,216	Ball, S. & S. S.....		26,475	9,035
958	Barton & O'Maley.....		27,023	10,857
1,022	Barry, M. & Co.....		63,657	15,984
1,158	Buell, W.....		28,730	10,094
632	Cochrane & Rigney.....		23,519	13,512
800	Church, R.....		31,397	.....
929	Collins, C. & Co.....		83,358	13,882
944	Chase, Levi.....		23,120	9,533
579	Chamberlain & Co.....		25,401	9,784
520	Clark, J. L. & Co.....		32,015	11,573
26	Colt, H. V.....		25,866	8,914
212	Curtis, D. F.....		33,478	13,075
319	Chamberlain & Bradley.....		24,388	10,228
56	Clark & Learned.....		31,308	12,200
101	Cady & Butler.....		28,783	11,916
1,058	Church, W. S.....		30,162	12,302
6	Chadwick, O.....		33,303	13,097
			38,899	13,586

145	Douglass & Jackson.....	24,232	11,166
965	De Lano & Lund.....	39,378	14,448
476	Donaldson & Co.....	27,927	11,281
209	Dodge, Nellis & Co.....	27,656	11,320
421	Ennis, R.....	27,155	10,299
82	Grant, L. A. G. B.....	31,072	11,942
497	Hayes, J.....	30,246	11,937
245	Hughes, J. B.....	29,086	11,307
1,038	Haggerty & Dimond.....	23,166	9,488
781	Johnson, M. F.....	27,567	.....
169	Jerome & McCormick.....	28,328	11,173
42	Keyes & Smith.....	27,393	11,117
13	Kingsley & James.....	23,875	13,140
514	Knapp, E.....	.....	9,014
972	Law, G.....	38,899	13,586
707	McCabe & Co.....	40,064	14,666
346	Milliner, J. P. & Co.....	27,413	11,131
191	Moore & Barnard.....	34,361	13,486
449	Martindale, J. H. & Co.....	33,007	13,403
1,157	Mills & Harwood.....	26,542	.....
563	McPherson, J.....	.....	12,107
933	Olney & Brill.....	23,601	.....
367	Osburn & Jones.....	27,752	10,360
574	Peck, L. J.....	27,979	11,178
556	Peirce, S. & Co.....	.....	9,138
528	Pringle, B.....	24,146	.....
915	Quackenboss, N. & L.....	30,045	10,990

## BIDS FOR MECHANICAL STRUCTURES—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Irondequoit Creek Culvert.		Allen's Creek Culvert.	
	Engineers' estimate,.....	\$34,675		\$15,068	
812	Richardson, D. H.....	34,637		12,759	
807	Swain & Nodwell.....	28,149		8,607	
585	Seelye, Lewis.....	32,370		12,138	
1,166	Severance, H. M.....	29,927		11,559	
1,046	Sherrill, J. H. & Co.....	24,678		8,308	
998	Smith, G.....	34,552		14,262	
1,030	Stansbury, E.....	28,928		11,545	
1,012	Sharp, D. & Co.....	27,770		.....	
996	Storrs, H. E. & Co.....	27,513		9,873	
502	Smith, E. P.....	34,121		13,456	
559	Turner, O.....	31,860		12,438	
58	Vernam, J. & Co.....	28,894		11,819	
545	Wagner & Leving.....	27,818		10,511	
15	Walker, W.....	28,277		11,047	
267	Welles, H. S.....	25,086		.....	
1,202	Whitney, J. W. & Co.....	33,214		13,782	
1,175	Williams, G. & Co.....	24,543		9,059	
1,119	Wright, J. T. & Co.....	33,358		13,882	

## CULVERTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 207.	No. 208.	No. 209.	No. 210.—1.	No. 210.—2.	No. 211.
	Engineers' estimate,.....	\$6,503	\$2,289	\$2,487	\$4,360	\$4,179	\$2,681
674	Akenhead & Co., .....	6,113	.....	.....	.....	.....	.....
681	Andrus & Hall, .....	5,281	2,119	2,086	3,829	3,494	2,016
694	Britton & Swain,.....	7,819	3,201	3,418	5,107	4,731	2,859
1,022	Barry & McGraw,.....	.....	2,736	2,808	4,874	5,058	3,401
960	Barton & O'Maley,.....	.....	2,374	2,332	3,737	3,739	3,111
115	Clark, P. W., .....	6,401	2,550	2,678	4,303	4,204	2,699
668	Caswell, N. B., .....	6,936	2,615	2,391	4,612	4,311	2,672
800	Church, R., .....	5,427	2,028	2,019	3,617	3,425	3,045
579	Chamberlain & Edgerton,.....	4,828	2,037	2,231	4,071	4,117	2,373
369	Clarke, E., .....	5,573	2,094	2,076	3,708	3,492	2,358
319	Chamberlain & Bradley, .....	4,869	2,236	2,218	4,036	3,660	2,591
55	Clark & Learned, .....	5,037	2,460	2,435	4,225	3,918	2,468
101	Cady & Butler, .....	5,344	2,626	2,433	4,511	4,291	2,807
1,058	Church, W. S., .....	5,586	2,161	2,412	4,033	3,810	3,106
385	Clark, J. W., .....	6,595	.....	.....	.....	.....	2,462
476	Donaldson, S. & Co., .....	5,281	.....	.....	.....	.....	.....
421	Ennis, R., .....	4,406	1,852	2,073	3,688	3,420	3,799
256	Goodrich, J. W., .....	5,054	2,025	2,129	3,754	3,530	3,314
245	Hughes, J. B., .....	5,058	2,315	2,216	4,050	3,799	2,803
1,087	Houghtaling, A., .....	4,943	1,839	1,892	3,288	3,184	2,112

## CULVERTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 209.	No. 208.	No. 207.	No. 210.—1.		No. 211.
	Engineers' estimate, .....	\$2,487	\$2,289	\$6,503	\$4,360	\$4,179	\$2,681
691	Hart & Spear, .....	2,745	3,280	6,491	.....	.....	.....
276	Kenyon, D., .....	.....	.....	11,444	4,143	3,905	.....
1,227	Kingsbury, T. H., .....	2,462	.....	.....	4,100	3,673	2,878
193	Lamoreau, A. O., .....	.....	.....	12,455	3,943	3,669	.....
972	Law, G., .....	2,592	2,527	6,034	4,296	4,057	3,077
764	McCartney, H. & Co., .....	1,943	1,960	4,849	3,797	3,548	2,518
459	Miller, J., .....	2,522	2,371	5,977	3,384	4,042	3,101
1,157	Mills & Harwood, .....	1,999	1,934	4,754	3,559	3,337	2,264
418	Nellis, R. S., .....	.....	.....	11,714	.....	.....	.....
574	Peck, L. J., .....	2,513	2,234	6,051	4,735	4,556	3,081
236	Stage, J. N., .....	1,688	2,012	4,596	.....	.....	.....
996	Storrs, H. E., .....	2,177	2,056	3,734	3,683	3,445	2,626
642	Snedaker, A., .....	.....	.....	.....	4,002	3,828	3,018
56	Vernon, J. & Co., .....	2,290	2,333	5,126	.....	3,765	2,621
273	Voorthies, W., .....	2,330	2,233	.....	3,849	3,626	2,503
545	Wagner & Leving, .....	2,055	2,098	4,902	3,734	3,467	2,441
840	Wood, Clark, & Co., .....	2,456	2,614	5,651	4,049	3,760	2,889
1,175	Williams, G. & Co., .....	2,059	2,127	5,381	3,684	3,432	2,797
1,119	Wright, J. T. & Co., .....	2,091	2,615	7,577	4,612	4,310	3,045

# CULVERTS.—(CONTINUED.)

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[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	No. 214.	No. 215.	No. 1—216.	No. 2—215.	No. 218.—1.	No. 218.—2.
	Engineers' estimate,.....	\$2,425	\$6,294	\$5,662	\$3,233	\$2,540	\$4,361
674	Akenhead, & Co.,.....	.....	.....	4,333	2,759	2,319	3,385
681	Andrus & Hall,.....	.....	.....	3,711	2,215	1,902	2,905
462	Akenhead, W. & R. A.,.....	.....	.....	5,271	3,396	2,622	4,352
694	Britton & Swain,.....	2,067	5,141	4,579	2,573	2,226	3,769
1,022	Barry & McGraw,.....	5,388	8,166	6,310	4,148	3,766	5,071
960	Barton & O'Maley,.....	2,753	6,397	6,248	3,534	2,930	5,050
115	Clark, P. W.,.....	3,047	6,183	5,012	3,016	2,617	4,171
660	Caswell, N. B.,.....	2,516	5,530	.....	.....	2,555	.....
800	Church, R.,.....	2,572	5,677	5,534	2,878	2,532	4,612
519	Chamberlain & Edgerton,.....	2,001	4,959	4,528	2,466	2,144	3,717
369	Clarke, E.,.....	2,354	6,405	5,751	2,881	2,524	4,262
319	Chamberlain & Bradley,.....	2,058	5,008	4,561	2,514	2,201	3,770
55	Clarke & Learned,.....	2,196	5,187	4,836	2,801	2,387	3,930
101	Cady & Butler,.....	2,412	5,672	5,138	3,049	2,610	4,147
1,058	Church, W. S.,.....	2,414	5,776	5,543	2,919	2,573	4,588
385	Clark, J. W.,.....	2,392	6,182	5,619	2,949	2,561	4,401
1,001	Corbett, M.,.....	.....	.....	.....	.....	3,297	4,066
421	Ennis, R.,.....	2,123	4,926	4,333	2,518	2,200	3,542
256	Goodrich, J. W.,.....	2,059	5,029	4,761	2,858	2,511	3,939
82	Grant, L. A. G. B.,.....	.....	.....	.....	.....	2,486	4,526
245	Hughes, J. R.,.....	2,197	5,238	4,898	2,678	2,350	4,060

## CULVERTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 214.	No. 215.	No. 216.—1.	No. 216.—2.	No. 1.—218.	No. 2.—218.
	Engineers' estimate,.....	\$2,425	\$6,294	\$5,662	\$3,233	\$2,540	\$4,361
1,087	Houghtailing, A.,.....	2,012	.....	.....	.....	.....	.....
276	Kenyon, D.,.....	.....	.....	5,276	3,182	3,062	4,573
493	Lamorean, A. O.,.....	.....	.....	4,836	3,199	3,059	4,515
972	Law, G.,.....	2,570	6,194	5,903	3,079	2,731	4,953
638	Layton & Rogers,.....	2,181	5,461	.....	.....	.....	.....
374	Leach, J. & Co.,.....	1,996	5,106	4,490	2,513	2,109	3,736
764	McCartney, H. & Co.,.....	2,165	5,047	4,533	2,671	2,325	3,726
459	Miller, I.,.....	2,418	6,376	5,554	3,302	.....	.....
1,157	Mills & Harwood,.....	1,980	4,884	4,337	2,486	2,138	3,691
837	Marsh, W. N.,.....	2,016	5,030	4,750	2,621	2,175	3,880
574	Peck, L. J.,.....	2,494	5,523	5,700	2,959	2,638	4,823
996	Storrs, H. E. & Co.,.....	2,155	5,235	4,421	2,664	2,316	3,693
642	Snedaker, A.,.....	2,053	5,506	4,658	.....	.....	.....
1,046	Sherrill, J. H. & Co.,.....	.....	.....	.....	.....	2,309	3,566
58	Vernam, J. & Co.,.....	2,225	5,266	4,897	2,856	2,423	3,964
273	Voorhies, W.,.....	2,074	6,328	5,679	3,148	2,516	4,025
545	Wagner & Levings,.....	2,038	5,046	4,592	2,493	2,181	3,766
1,175	Williams, G. & Co.,.....	2,238	5,510	4,517	2,767	2,398	3,662
1,119	Wright, J. T. & Co.,.....	2,372	5,677	5,534	2,878	2,532	4,612
688	Williams & Palmeter,.....	.....	4,830	4,287	2,441	2,038	3,486
431	Webster, A.,.....	.....	.....	.....	.....	2,592	4,196





## OULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 1.—228.	No. 2.—228.	No. 229.	No. 232.	No. 234.	No. 238.	No. 239.
	Engineers' estimate,.....	\$2,539	\$3,222	\$2,712	\$5,082	\$3,945	\$4,198	\$5,953
256	Goodrich, J. W.,.....	2,361	2,789	2,204	4,111	3,547	.....	.....
82	Grant, L. A. G. B.,.....	2,761	3,835	.....	5,031	4,283	4,283	6,183
245	Hughes, J. B.,.....	2,396	3,183	2,552	4,703	4,036	4,036	5,031
1,153	Hudnut & Bissell,.....	.....	.....	.....	.....	.....	3,836	5,527
276	Kenyon, D.,.....	.....	.....	.....	4,650	3,190	3,316	4,686
514	Knapp, E.,.....	.....	.....	.....	.....	.....	.....	4,912
972	Law, G.,.....	2,781	3,491	2,971	5,673	4,290	4,304	6,956
374	Leach, J. & E. B.,.....	2,228	2,818	2,500	4,337	3,411	3,511	4,970
493	Lamorean, A. O.,.....	.....	.....	.....	4,582	3,541	3,848	5,339
1,157	Mills & Harwood,.....	2,188	2,760	2,243	4,162	3,580	3,580	6,080
837	Marsh, W. N.,.....	2,226	3,329	2,730	4,500	3,844	.....	.....
400	Moore, S.,.....	2,126	2,788	2,165	4,289	3,718	3,713	5,364
574	Peck, L. J.,.....	2,678	4,003	2,980	5,543	4,772	4,774	6,318
985	Palmer, Hinman & Co.,.....	.....	.....	.....	.....	.....	.....	4,317
996	Storrs, H. E. & Co.,.....	2,366	2,978	2,601	4,277	3,694	5,098	5,339
642	Snedaker, A.,.....	2,430	.....	2,705	.....	.....	.....	.....
1,046	Sherrill, A. H. & Co.,.....	.....	.....	.....	.....	.....	.....	.....
58	Vernam, J.,.....	2,501	3,127	2,498	.....	3,520	3,520	4,863
545	Wagner & Levings,.....	2,226	3,063	2,298	4,667	4,005	3,880	4,411
1,175	Williams, G. & Co.,.....	2,448	3,106	2,728	4,377	3,702	3,702	5,330
1,119	Wright, J. T. & Co.,.....	2,582	3,441	2,637	4,345	3,649	4,567	5,141
688	Williams & Palmeter,.....	2,057	2,602	2,187	5,309	4,567	.....	6,628

## CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 246.	No. 253.	No. 255.	No. 260.—1.	No. 260.—2.	Genesee Fee- der.
		\$1,732	\$1,732	\$6,674	\$1,185	\$777	
681	Andrus & Hall,.....	.....	.....	.....	882	601	.....
462	Akenhead, W. & R. A.,.....	1,714	.....	.....	.....	.....	.....
1,140	Archer & Boyce,.....	.....	.....	6,112	.....	.....	.....
728	Bull & Hill,.....	.....	.....	8,496	.....	.....	.....
694	Britton & Swain,.....	.....	.....	5,623	.....	.....	1,692
960	Barton & O'Maley,.....	.....	.....	6,576	3,693	869	2,307
1,143	Boyce, P.,.....	2,130	3,591	5,251	1,034	.....	.....
1,023	Barry, M. & Co.,.....	1,402	1,402	9,228	1,854	1,498	2,479
153	Buell, W.,.....	2,289	2,304	7,070	1,516	1,084	2,073
116	Barnard & Hildreth,.....	1,853	1,826	.....	.....	.....	.....
1,216	Ball, S. & S. S.,.....	.....	1,249	5,994	.....	.....	.....
800	Church, R.,.....	1,726	1,742	7,538	1,643	1,134	.....
929	Collins, J. & C.,.....	1,521	1,537	5,729	736	532	.....
579	Chamberlain & Edgerton,.....	1,400	1,420	6,538	1,209	877	1,655
620	Clark, J. L. & Co.,.....	1,365	2,442	5,027	881	608	1,220
319	Chamberlain & Bradley,.....	1,498	1,505	6,512	.....	.....	.....
55	Clark & Learned,.....	1,567	1,579	5,276	1,354	960	1,832
101	Cady & Butler,.....	1,827	1,847	6,682	1,560	1,160	2,083
1,058	Church, W. S.,.....	1,710	1,706	7,636	.....	.....	.....
6	Chadwick, O.,.....	1,740	1,756	6,740	1,482	1,054	1,986
212	Curtis, B. F.,.....	.....	.....	5,905	.....	.....	.....

## CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 246.	No. 253.	No. 255.	No. 260.—1.	No. 290.—2.	Genesee Fed- der.
		No. 246.	No. 253.	No. 255.	No. 260.—1.	No. 290.—2.	
	Engineers' estimate,.....	\$1,732	\$1,732	\$6,674	\$1,185	\$777	\$1,370
1,001	Corbett, M.,.....	.....	.....	.....	1,311	961	.....
145	Douglas & Jackson,.....	.....	.....	6,160	1,112	.....	.....
476	Donaldson, S. & Co.,.....	1,509	1,525	5,703	895	613	.....
965	Delano & Lund,.....	.....	.....	7,627	.....	.....	.....
147	Daniels & Douglass,.....	.....	.....	.....	.....	.....	1,640
421	Ennis, R.,.....	1,629	1,649	6,069	1,235	866	.....
836	Green, Benson & Co.,.....	.....	.....	.....	1,387	921	.....
82	Grant, L. A. G. B.,.....	.....	.....	7,703	.....	.....	.....
245	Hughes, J. B.,.....	1,085	1,609	6,910	1,776	1,321	1,932
1,938	Haggerty & Dimon,.....	1,751	1,767	5,685	1,059	749	.....
599	Hardy & James,.....	.....	.....	.....	.....	.....	1,403
781	Johnson, M. F.,.....	.....	.....	5,034	.....	.....	.....
24	Jenkinson, J. & Co.,.....	.....	.....	.....	.....	.....	1,442
514	Knapp, E.,.....	.....	.....	.....	892	636	1,280
42	Keyes & Smith,.....	.....	.....	6,601	.....	.....	.....
972	Law, G.,.....	.....	.....	6,740	1,482	1,054	1,986
490	Moore, S.,.....	1,474	.....	.....	.....	.....	.....
701	McCabe, Short & Co.,.....	1,571	1,546	8,905	1,883	1,269	.....
1,157	Mills & Harwood,.....	1,460	.....	6,135	1,069	745	1,501
846	Milliner, J. P. & Co.,.....	.....	.....	5,474	1,248	876	.....
191	Moore & Barnard,.....	.....	.....	7,349	.....	.....	.....



## CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 266.	No. 267.	No. 270.	No. 271.	No. 274.	No. 275.
	Engineers' estimate,.....	\$5,857	\$1,414	\$4,918	\$5,828	\$1,562	\$4,120
113	Avery, Elias,.....	6,528	2,011	5,864	.....	.....	.....
958	Barton, D. R. & Co. ....	7,757	2,183	6,713	9,013	2,096	5,357
595	Bell, John L. ....	5,160	1,352	4,771	5,530	1,338	4,282
360	Bridges & Ennis.....	6,197	1,796	.....	.....	1,892	.....
694	Britton & Swain.....	6,164	1,662	5,852	6,350	1,610	4,834
318	Butler & Stranbrough.....	4,962	1,259	4,410	4,844	1,259	3,739
158	Buell, William.....	7,432	2,005	6,548	7,460	1,940	5,493
1,022	Barry, Michael & Co. ....	6,746	2,515	6,767	8,013	2,430	5,692
101	Cady & Butler.....	6,748	2,029	5,871	7,115	1,966	5,033
800	Church, Richard.....	7,044	1,937	5,907	7,594	1,883	5,016
55	Clark & Learned.....	6,228	1,771	5,509	6,919	1,712	4,612
6	Charliff, Oliver.....	6,866	1,945	5,946	7,919	1,889	5,042
302	Curtiss, H. M.....	6,876	2,301	.....	.....	.....	.....
579	Chamberlain, C. T. & Co. ....	5,859	1,672	5,744	6,196	1,620	4,553
521	Cole, Peter P.....	.....	1,432	4,747	5,424	.....	.....
319	Chamberlain & Bradley.....	6,060	1,660	5,350	6,320	1,610	4,495
147	Daniels & Douglass.....	.....	1,617	5,445	6,049	1,563	4,532
893	Ely, L. D.....	6,915	1,792	5,696	7,220	1,730	5,357
82	Grant, L. A. G. B.....	6,767	.....	.....	.....	.....	4,952
599	Hardy James.....	5,112	1,340	4,779	5,511	1,262	4,150
245	Hughes, J. B.....	6,876	1,831	5,990	7,467	1,781	5,002

281	Hinds & Copeland.....	6,366	1,923	5,794	.....	.....	.....
1,153	Hudnutt & Bissell.....	6,217	1,639	5,121	.....	.....	.....
247	Jenkinson, J. & Co.....	5,381	1,368	4,929	5,569	1,357	4,351
169	Jerome & McCormick.....	5,914	.....	.....	.....	.....	.....
346	Millner, J. P. & Co.....	.....	1,448	4,990	5,844	1,422	4,540
837	Marsh, W. N.....	.....	.....	.....	6,405	.....	.....
1,157	Mills, H. P. & Co.....	.....	1,478	4,927	6,072	1,428	4,118
218	O'Neil, W. & Son.....	.....	1,603	5,152	.....	.....	.....
367	Osburn, & Jones.....	5,773	1,533	5,119	6,373	1,480	.....
906	O'Brien, James.....	.....	2,312	6,311	8,270	2,254	5,178
521	Page, P. P.....	.....	.....	.....	.....	1,395	.....
569	Ryan & Swan.....	6,462	1,948	5,663	8,011	1,889	4,749
1,127	Ross, M. L.....	5,547	1,570	4,993	6,016	1,610	4,228
996	Storrs, Hiram E. & Co.....	5,951	1,679	5,340	6,533	1,624	4,490
1,012	Sharp, Daniel & Co.....	6,355	1,670	5,607	6,646	1,767	.....
585	Seeleye, Lewis.....	5,642	1,350	.....	.....	.....	.....
605	Thompson, J. R.....	4,835	1,266	4,228	4,949	1,290	3,665
658	Thomson, C. B. & Co.....	6,086	1,446	4,991	5,902	1,404	4,181
559	Turner, Otis.....	6,630	1,756	5,643	7,118	1,698	4,778
58	Vernam, John & Co.....	6,515	1,786	5,547	7,338	1,722	4,638
545	Vagner & Levings.....	6,446	1,732	5,428	7,058	1,688	4,609
840	Wood & Clarke.....	5,838	.....	.....	.....	.....	.....
1,175	Williams, Geo. & Co.....	5,653	1,516	5,115	6,614	1,563	4,289
1,119	Wright, J. T. & Co.....	7,044	1,934	5,907	7,594	1,883	5,016

## CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.						No. 276.	No. 277.	No. 278.	No. 279.	No. 280.	No. 281.
	Engineers' estimate,.....											
							\$2,677	\$3,963	\$2,750	\$6,105	\$1,511	\$2,860
318	Butler & Starnbrough, .....	2,290	3,310	2,373	5,324	1,371	2,481					
958	Barton, D. R. & Co.,.....	3,902	5,495	4,021	7,771	2,226	4,174					
595	Bell, J. L. ....	2,616	4,014	2,860	.....	.....	.....					
360	Bridges & Ennis,.....	3,233	.....	3,272	6,647	1,767	3,174					
694	Britton & Swain,.....	2,978	4,341	3,095	6,295	1,751	3,152					
158	Buell, Wm.,.....	3,562	5,156	3,661	7,776	2,116	3,780					
1,022	Barry, M. & Co.,.....	3,990	5,563	4,142	7,318	2,633	4,266					
101	Cady & Butler, .....	3,470	4,948	3,560	6,869	2,141	3,690					
808	Church, Richard, .....	3,637	5,342	3,698	7,340	2,027	3,805					
55	Clark & Learned, .....	3,106	4,480	3,194	6,306	1,877	3,318					
6	Charliff, Oliver, .....	3,743	5,550	3,812	.....	2,032	3,911					
579	Chamberlain, C. T. & Co., .....	2,956	4,279	3,051	.....	1,710	3,042					
319	Chamberlain & Bradley, .....	3,910	4,381	2,980	.....	1,702	3,132					
23	Clark, Orville, .....	.....	.....	.....	.....	1,736	.....					
147	Daniels & Douglass,.....	2,862	4,146	2,950	.....	1,716	3,057					
823	Ely, L. D.,.....	3,360	4,953	3,438	6,995	1,907	3,997					
82	Grant, Lathrop A. G. B.,.....	.....	.....	.....	7,025	.....	.....					
599	Hardy, James, .....	2,539	3,814	2,752	.....	.....	.....					
245	Hughes, J. B.,.....	3,531	5,229	3,593	6,899	1,920	3,687					
281	Hinds & Copeland,.....	.....	.....	.....	.....	2,033	3,514					
189	Harrington, M. A. & Co.,.....	.....	.....	.....	.....	1,731	3,259					





## CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 282.	No. 287.	No. 288.	No. 290.	No. 291.	No. 292.
	Engineers' estimate,.....	\$3,616	\$6,356	\$1,403	\$19,358	\$1,411	\$2,910
958	Barton, D. R. & Co., .....	4,676	7,897	1,893	22,388	1,992	2,640
362	Bridges & Ennis, .....	3,950	7,003	1,688	19,597	1,673	.....
694	Britton & Swain, .....	3,832	6,506	1,537	18,212	1,538	.....
318	Butler & Stanbrough, .....	3,099	5,412	1,330	15,292	1,340	2,521
158	Buell, Wm., .....	4,663	8,036	1,976	23,014	1,978	3,718
1,022	Barry, M. & Co., .....	4,880	7,703	2,172	17,454	.....	.....
1,728	Ball, J. P., .....	.....	10,795	2,281	28,009	2,130	.....
1,239	Burrell, Truxton B., .....	.....	.....	1,582	18,839	1,559	2,987
101	Cady & Butler, .....	3,945	6,629	1,756	18,485	1,757	3,149
800	Church, Richard, .....	4,563	7,808	1,856	21,566	1,869	3,524
55	Clark & Learned, .....	3,954	6,625	1,628	18,838	1,629	3,075
6	Charlick, Oliver, .....	4,594	7,779	1,701	23,418	1,704	3,286
579	Chamberlain, C. T. & Co., .....	3,689	6,256	1,544	18,809	1,549	3,028
319	Chamberlain & Bradley, .....	3,782	6,447	1,499	18,833	1,501	2,952
51	Colton & Aikin, .....	.....	.....	.....	16,925	1,478	2,773
23	Clarke, Orville, .....	.....	6,739	.....	19,054	1,514	.....
1,164	Clyde, H. A., .....	.....	.....	2,584	20,623	2,583	.....
1,001	Corbet, M., .....	.....	.....	1,586	.....	.....	.....
147	Daniels & Douglass, .....	.....	6,739	1,691	18,096	1,653	3,102
823	Ely, L. D., .....	4,301	7,304	1,672	20,903	1,673	3,300
82	Grant, L. A. G. B., .....	.....	.....	.....	19,344	1,717	3,154

245	Hughes, J. B.,	4,353	7,385	1,637	20,956	1,641	3,306
281	Hinds & Copeland,	4,197	.....	1,756	.....	.....	.....
691	Hart & Spear,	.....	.....	.....	.....	.....	.....
189	Harrington, N. A.,	.....	.....	1,434	18,243	1,741	3,130
173	Hard, Gideon, & Co.,	.....	.....	.....	18,187	1,451	2,873
657	Holden, S. C. & Co.,	3,293	5,972	1,374	17,928	1,527	2,781
13	Kingsley & James,	.....	6,276	1,428	.....	.....	.....
480	King, J. B. & Co.,	.....	.....	.....	21,013	1,885	3,089
914	Lyman, Tho's A. E. & Co.,	.....	.....	1,596	19,690	1,606	3,154
708	Lewis, W. S. & Co.,	2,866	4,877	.....	20,897	1,897	.....
346	Milliner, J. P. & Co.,	3,740	.....	.....	.....	.....	.....
1,157	Mills, H. P. & Co.,	.....	6,384	1,447	18,613	1,448	2,746
87	Phillips, L. H.,	.....	6,231	.....	16,639	1,617	.....
556	Pierce, S. S. & Co.,	.....	.....	.....	17,823	.....	.....
528	Pringle, Benj.,	.....	.....	1,291	17,126	1,292	2,634
574	Peck, L. J.,	.....	.....	.....	16,916	.....	.....
589	Ryan & Swan,	4,559	6,189	1,799	16,680	1,776	2,990
1,127	Ross, M. L.,	3,658	.....	.....	.....	.....	.....
359	Reid & St. John,	3,144	5,340	1,186	.....	.....	.....
812	Richardson, D. H.,	.....	.....	.....	22,942	1,745	.....
996	Storrs, H. E. & Co.,	3,957	6,782	1,436	18,205	1,437	2,871
660	Soper & Field,	.....	.....	1,400	17,932	1,408	2,780
605	Thomson, J. B.,	3,297	5,658	.....	.....	.....	.....
368	Thompson, C. B.,	3,613	.....	.....	.....	.....	.....
559	Turner, Otis,	4,233	7,275	1,581	29,310	1,509	3,013
58	Vernam, John & Co.,	4,237	7,170	1,637	18,880	1,637	3,089

## CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 283.	No. 287.	No. 288.	No. 290.	No. 291.	No. 292.
	Engineers' estimate, .....	\$3,616	\$6,356	\$1,403	\$19,358	\$1,411	\$2,910
545	Warner & Levings, .....	4,131	7,028	1,590	19,542	1,593	3,135
840	Wood & Clarke, .....	3,999	.....	.....	.....	.....	.....
1,175	Williams, Geo. & Co., .....	3,858	6,569	1,402	16,284	1,402	2,653
1,119	Wright, J. T. & Co., .....	4,563	7,808	1,866	21,566	1,869	3,524
220	Wilder, A., .....	3,404	5,937	1,428	15,826	1,623	.....

## CULVERTS ON SECTIONS (CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 293.	No. 296.	No. 298.	No. 300.	No. 302.	No. 304.
	Engineers' Estimate,.....	\$1,474	\$4,395	\$3,274	\$2,743	\$1,308	\$654
958	Barton, D. R. & Co. ....	2,070	6,085	4,035	3,411	2,512	1,377
318	Butler, O. & Co., ....	1,426	4,390	2,877	2,355	1,520	908
168	Buell, Wm., ....	2,056	6,360	4,218	2,575	2,279	1,289
1,239	Burrell, T., ....	1,629	.....	3,443	2,838	1,875	1,006
51	Colt & Aikin,.....	1,552	4,839	2,603	2,671	1,812	1,011
800	Church, Richard,.....	1,938	6,177	3,992	3,388	2,618	1,277
55	Clark & Learned,.....	1,700	5,228	3,481	2,925	1,994	1,140
101	Cady & Butler,.....	1,824	5,312	3,572	3,032	2,038	1,216
579	Chamberlain, C. T. & Co.,.....	1,610	.....	.....	2,756	1,827	990
6	Charlick, O.,.....	1,766	.....	4,247	3,082	2,590	1,206
319	Chamberlain & Bradley,.....	1,563	5,134	3,763	2,894	1,860	1,006
615	Copeland, S. D. & Co.,.....	.....	.....	.....	.....	2,026	.....
147	Daniels & Douglass,.....	1,761	.....	3,582	3,023	1,788	1,016
823	Ely, L. D., ....	1,749	5,787	3,735	3,119	2,300	1,145
82	Grant, L. A. G. B., ....	.....	5,434	3,603	.....	.....	.....
1,212	Goodrich, H.,.....	.....	.....	3,148	.....	.....	.....
189	Harrington, M. A., ....	1,550	5,079	.....	.....	1,843	975
245	Hughes, J. B.,.....	1,700	5,785	3,685	3,068	2,422	1,148
173	Hard, Gideon, & Co., ....	1,460	5,160	3,386	.....	.....	.....
281	Hinds, F. & Co., ....	1,830	5,537	3,580	.....	.....	.....
394	Hopkins & Wicks,.....	.....	.....	.....	3,042	.....	924

## CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 293.	No. 296.	No. 298.	No. 300.	No. 302.	No. 304.
	Engineers' estimate,.....	\$1,474	\$4,395	\$3,274	\$2,743	\$1,308	\$654
480	King, J. B. & Co.,.....	1,660	5,740	3,698	3,159	.....	959
1,157	Mills, H. P. & Co.,.....	1,510	4,906	3,137	2,635	1,917	911
528	Pringle, Benj.,.....	1,353	.....	.....	.....	.....	.....
589	Ryan & Swan,.....	1,780	5,468	2,432	2,894	2,867	1,258
359	Reid, E. S. & Co.,.....	.....	4,213	2,703	2,257	1,462	.....
660	Soper & Field,.....	1,459	4,937	3,208	2,658	1,483	777
996	Storrs, H. E. & Co.,.....	1,499	4,921	3,220	2,701	1,781	960
256	Stage, J. N.,.....	.....	.....	.....	.....	.....	761
559	Turner, Otis,.....	1,566	5,310	3,401	2,821	2,142	1,026
58	Vernam, John & Co.,.....	1,711	5,499	3,493	2,940	2,509	1,148
545	Wagner & Levings,.....	1,546	5,522	3,516	2,927	2,358	1,110
840	Wood, A. D. & Co.,.....	.....	3,781	3,300	.....	2,024	.....
119	Wright, J. T. & Co.,.....	1,933	6,177	3,992	3,338	2,618	1,277
1,175	Williams & Moore,.....	1,462	4,960	3,043	2,534	2,048	960

## CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 305.	No. 307.	No. 308.	No. 309.	No. 311.	No. 312.
		\$654	\$654	\$654	\$654	\$4,959	\$654
	Engineer's estimate,	\$654					
958	Barton, D. R. & Co.	1,377	1,377	1,377	1,377	8,326	1,420
318	Butler, O. & Co.	829	800	872	890	5,433	825
158	Buell, William.	1,289	1,289	1,289	1,289	8,526	1,289
319	Burrill, T.	959	967	1,014	947	7,115	947
354	Brown, George.	993			993	7,523	993
51	Colton & Aikin.	1,011	1,011	1,011	1,011	6,493	1,011
23	Clarke, Orville.	973				7,051	973
1,164	Clyde, M. A. & Co.					7,459	
800	Church, Richard.	1,277	1,277	1,277	1,277	8,470	1,277
105	Collins, W. P.					8,018	
55	Clark & Learned.	1,140	1,140	1,140	1,140	7,247	1,140
101	Cady & Butler.	1,216	1,216	1,216	1,216	7,089	1,216
579	Chamberlain, C. T. & Co.	990	990	990	990	7,042	990
6	Charlick, Oliver.	1,206	1,206	1,206	1,206		1,206
319	Chamberlain & Bradley.	1,006	1,006	1,006	1,006	7,126	1,006
615	Copeland, L. D.		981	979	981		
147	Daniels & Douglass.	1,016	1,016	1,016	1,016		1,016
613	Danolds, D. A.		735				
608	Danolds, C. A.		729	729	729		
823	Ely, L. D.	1,145	1,145	1,145	1,145	8,201	1,145
82	Grant, L. A. G. B.					7,493	

## CULVERTS ON SECTION—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 305.	No. 307.	No. 308.	No. 309.	No. 311.	No. 312.
		\$654	\$654	\$654	\$654	\$4,959	\$654
1,212	Goodrich, H.	.....	968	968	.....	.....	.....
189	Harrington, M. A.	950	950	.....	.....	6,845	.....
215	Hughes, J. B.	1,148	1,148	1,148	1,148	8,326	1,148
173	Hard, Gideon & Co.	.....	.....	911	839	.....	.....
281	Hinds, F. & Co.	1,250	.....	.....	.....	7,121	1,257
394	Hopkins & Weeks.	908	889	.....	.....	7,153	.....
691	Hart & Spear.	.....	1,295	1,295	1,295	.....	.....
412	Hilton, J. M. K.	.....	.....	.....	.....	.....	.....
70	Hunter & Collins.	.....	.....	.....	.....	.....	918
72	Jackson, James.	.....	1,216	.....	.....	.....	951
480	King, J. B. & Co.	.....	.....	.....	.....	6,745	.....
565	Kneeland, S. W.	959	.....	.....	.....	7,884	.....
1,157	Mills, H. P. & Co.	911	.....	.....	.....	5,296	733
528	Pringle, Benjamin.	.....	911	911	911	.....	911
87	Phillips, S. H.	.....	852	852	852	6,430	852
589	Ryan & Swan.	1,458	.....	.....	.....	6,539	1,051
660	Soper & Field.	778	1,443	.....	.....	.....	.....
996	Storrs, H. E. & Co.	960	.....	.....	.....	.....	.....
236	Stage, J. N.	736	960	960	960	6,955	960
559	Turner, Otis.	1,026	.....	.....	.....	.....	.....
619	Tousley O. & Co.	.....	1,026	1,026	1,026	7,508	1,026
		.....	775	775	775	.....	765

53	Vernam, J. & Co.	1,148	1,148	1,148	1,148	1,148	7,516	1,148
545	Wagner & Levings	1,110	1,110	1,110	1,110	1,110	7,797	1,110
840	Wood, A. D. & Co.	.....	.....	.....	.....	.....	6,610	1,212
119	Wright, J. T. & Co.	1,277	1,277	1,277	1,277	1,277	8,470	1,276
1,175	Williams & Moore	966	966	966	966	966	6,449	966



## CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Sec. No. 313.			Sec. No. 314.		
	Engineers' estimate,	\$654			\$900		
958	Barton, D. R. & Co.	1,420			1,786		
318	Butler, O. & Co.	876			1,145		
158	Buell, William.	1,289			1,660		
1,239	Burrell, T.	947			1,265		
23	Clarke, Orville.	973			1,302		
51	Colter & Aiken.	1,011			1,316		
800	Church, R.	1,277			1,620		
55	Clarke & Learned.	1,140			1,459		
101	Cady, H. & Co.	1,216			1,524		
579	Chamberlain, C. T. & Co.	989			1,301		
6	Charlick, O.	1,206			1,555		
319	Chamberlain & Bradley.	1,006			1,322		
147	Daniels & Douglass.	1,016			1,307		
608	Danols, C. A.	904			1,143		
823	Ely, L. D.	1,145			1,499		
82	Grant, L. A. G. B.	.....			1,422		
189	Harrington, M. A.	925			1,278		
245	Hughes, J. B.	1,148			1,498		
281	Hinds, F. & Co.	1,257			1,581		
394	Hopkins & Weeks.	.....			1,211		
70	Hunter & Collins.	.....			.....		

733	Hewes, H. N.	.....	.....	1,527
480	King, J. B. & Co.	.....	.....	1,552
565	Kneeland S. W.	.....	733	969
1,157	Mills, H. P. & Co.	.....	911	1,190
528	Pringle, Benjamin	.....	852	1,138
87	Phillips, L. H.	.....	1,051	1,324
589	Ryan & Swan	.....	.....	1,722
996	Storrs, H. E. & Co.	.....	996	1,262
559	Turner, Otis	.....	1,026	1,344
619	Tousley, O. & Co.	.....	775	1,040
58	Vernam, John & Co.	.....	1,148	1,470
545	Wagner & Levings	.....	1,110	1,437
840	Wood, A. D. & Co.	.....	1,212	1,521
119	Wright, J. T. & Co.	.....	1,277	1,620
1,175	Williams & Moore	.....	966	1,265

## WASTE WEIRS, ON SECTIONS.

No. of proposition.	NAMES OF BIDDERS.	No. 208.		No. 215.		No. 219.		No. 232.		No. 254.		No. 259.	
		Engineers' estimate, .....		\$1,412		\$1,342		\$1,431		\$700		\$700	
1,021	Barry, M. & Co., .....	1,570	1,287	1,386	1,335	824	.....	.....	.....	.....	.....	.....	.....
751	Bishop, Edson, .....	1,229	1,127	1,267	1,296	845	.....	.....	.....	.....	.....	.....	845
118	Barney, V. G. & Co., .....	.....	.....	.....	1,115	.....	.....	.....	.....	.....	.....	.....	.....
580	Chamberlain & Edgerton, .....	1,460	1,387	1,480	1,392	784	.....	.....	.....	.....	.....	.....	784
667	Caswell, N. B., .....	1,523	1,460	1,540	1,456	.....	.....	.....	.....	.....	.....	.....	.....
323	Chamberlain & Bradley, .....	1,484	1,407	1,505	1,402	762	.....	.....	.....	.....	.....	.....	762
489	Clarke, J. W., .....	1,180	1,124	1,195	1,120	637	.....	.....	.....	.....	.....	.....	637
401	Clarke, P. W., .....	1,205	1,150	1,226	1,147	657	.....	.....	.....	.....	.....	.....	657
427	Clarke, Ethan, .....	1,260	1,197	1,277	1,189	688	.....	.....	.....	.....	.....	.....	688
107	Cady, H. & Co., .....	1,987	1,890	2,011	1,894	1,114	.....	.....	.....	.....	.....	.....	1,144
250	Goodrich, J. W., .....	informal.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
241	Hughes, J. B., .....	1,445	1,364	1,464	1,370	761	.....	.....	.....	.....	.....	.....	761
277	Kenyon, Daniel, .....	.....	.....	.....	1,204	.....	.....	.....	.....	.....	.....	.....	.....
639	Layton & Rogers, .....	.....	1,467	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
972	Law, George, .....	1,541	1,471	1,560	1,467	847	.....	.....	.....	.....	.....	.....	847
372	Leach, Jacob & Co., .....	.....	1,365	1,474	1,351	.....	.....	.....	.....	.....	.....	.....	.....
494	Lamoreaux, A. O., .....	.....	.....	1,635	1,258	.....	.....	.....	.....	.....	.....	.....	.....
1,101	Mitchell, Calvin, .....	1,606	1,514	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
112	Peck, L. J., .....	informal.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
557	Pierce, Warner & Co., .....	.....	.....	.....	.....	658	.....	.....	.....	658	.....	.....	658
358	Reid, E. S. Co., .....	1,185	1,126	1,270	1,130	622	.....	.....	.....	622	.....	.....	622

821	Smith & Ely, ..	1,536	1,466	1,555	1,461	844	844
593	Seleye, Lewis, ..	.....	.....	.....	.....	628	628
237	Stage, I. N., ..	1,160	.....	.....	.....	.....	.....
270	Voorhies, Wm., ..	1,466	1,175	1,294	1,220	.....	.....
504	Wagner, C. & Co., ..	1,451	1,381	1,470	1,377	764	764
1,072	Williams, Geo. & Co., ..	1,504	1,416	1,528	1,411	850	851
682	Williams, A. B. & Co., ..	.....	1,292	1,364	.....	.....	.....



358	Reid, E. S. & Co.,	1,179	1,173	1,173	1,125	1,230	1,163
541	Ryan, John & Co.,	1,693	1,693	1,688	.....	1,694	1,693
821	Smith & Ely,	1,464	1,464	1,464	1,464	1,464	.....
583	Seelye, Lewis,	1,129	.....	.....	.....	.....	.....
617	Soper, Field & Co.,	.....	.....	.....	.....	1,596	1,163
606	Thomson, J. R.,	1,059	1,030	.....	.....	.....	.....
504	Wagner, D. & Co.,	1,395	1,395	1,390	1,390	1,394	1,394
1,072	Williams, Geo. & Co.,	1,439	1,439	1,439	1,439	1,439	1,439
221	Wilder, A.,	.....	.....	1,063	.....	.....	.....

# BRIDGE ABUTMENTS,—From Section 207 to 314.

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[Assembly

No. of proposition.	NAMES OF BIDDERS.	No. 207.	No. 208.	No. 209.	No. 210.—1.	No. 210.—2.	No. 212.—1.
		\$1,609	\$1,605	\$1,619	\$1,343	\$1,377	\$1,744
680	Andrus, S., .....	.....	.....	.....	.....	.....	1,428
762	Brintnall, H. & Co., .....	1,516	1,502	1,525	1,269	1,300	1,637
1,020	Barry, M. & Co., .....	1,538	1,533	1,550	1,290	1,333	1,707
1,041	Birchard, B. & Co., .....	1,420	1,416	1,428	1,083	1,211	1,528
371	Clarke, J. W., .....	3,223	3,219	3,232	2,982	3,014	3,344
133	Clark, E., .....	1,563	1,559	1,573	1,303	1,338	1,698
650	Cady & Butler, .....	1,662	1,658	1,672	1,392	1,426	1,797
669	Caswell, N. B., .....	1,644	1,640	1,653	1,311	1,409	1,765
548	Clark, P. W., .....	1,500	1,497	1,510	1,250	1,283	1,629
869	Candee, Reed & Co., .....	1,471	1,468	1,478	1,232	1,069	1,559
798	Church, R., .....	1,561	1,558	1,570	1,305	1,336	1,683
943	Chase, L., .....	1,298	1,295	1,305	1,089	1,111	1,386
322	Chamberlain & Bradley, .....	1,236	1,232	1,245	1,027	1,058	1,357
581	Chamberlain & Edgerton, .....	1,284	1,280	1,292	1,067	1,098	1,405
294	Dodge, J. A. & D. L., .....	1,229	1,210	1,221	.....	.....	1,331
417	Ennis, R., .....	1,621	1,652	1,669	1,399	1,430	1,743
306	Ennis, W. H. & Co., .....	1,573	1,568	1,531	1,268	1,302	1,656
409	Ellicott, J. & Co., .....	1,611	1,506	1,624	1,346	1,390	1,781
453	Field, F. & Co., .....	1,453	1,449	1,461	1,224	1,253	1,267
713	Foster, C. & Co., .....	.....	.....	.....	.....	.....	1,691
47	Grant, L. A. G. B., .....	1,702	1,697	1,715	1,423	1,467	1,879

251	Goodrich, J. W., .....	1,306	1,300	1,311	1,094	1,122	1,457
1,089	Houghtaling, A., .....	1,749	1,673	1,656	1,310	1,338	1,706
692	Hart, J. N. & Co., .....	1,864	1,861	1,872	.....	.....	.....
242	Hughes, J. B., .....	1,375	1,371	1,384	1,144	1,177	1,503
968	Hall, I., .....	1,082	1,080	1,088	925	946	1,163
1,226	Kingsbury, F. H., .....	.....	.....	1,548	1,274	1,323	1,722
375	Leach, J. & Co., .....	.....	1,568	.....	.....	.....	.....
465	Lyman, A., .....	1,638	1,551	1,867	1,549	1,589	2,011
975	Law, Geo., .....	1,856	1,851	1,832	1,531	1,562	1,945
892	Lee, J. B. & Co., .....	1,823	1,820	1,734	1,442	1,477	1,859
635	Layton, J. & Co., .....	1,724	1,720	.....	.....	.....	1,753
1,103	Mitchell, C., .....	.....	1,773	1,778	1,500	1,531	1,902
1,154	Mills, H. P. & Co., .....	1,788	1,431	1,441	1,196	1,222	1,535
1,060	McGovern, T. & Co., .....	1,434	1,931	1,952	1,606	1,659	2,142
460	Miller, J., .....	1,937	.....	1,650	1,060	1,412	1,838
1,050	McCartney, H. & Co., .....	.....	1,272	1,282	1,064	1,096	1,369
420	Nellis, R. S., .....	1,275	1,299	1,370	1,116	1,150	1,418
1,069	Nichols, J. H., .....	1,403	1,588	1,605	1,232	1,375	1,762
573	Peck, L. J., .....	1,593	1,929	1,243	1,021	1,055	1,368
341	Reynolds, A., .....	1,233	1,248	1,259	1,046	1,078	1,353
1,168	Severance, H. M., .....	1,251	1,422	1,438	1,190	1,219	1,540
1,239	Stage, J. N., .....	1,426	1,629	1,643	.....	.....	.....
1,007	Smith, P., .....	1,633	1,642	1,656	1,377	1,412	1,781
269	Voorhies, W., .....	1,646	1,382	1,394	1,157	1,184	1,494
1,054	Van Slyck, A. & Co., .....	1,386	1,543	1,553	1,339	1,364	.....
1,197	Williams, G. & Co., .....	1,546	1,637	1,651	1,370	1,405	1,776
547	Wagner, D. & Co., .....	1,641	1,335	1,349	1,112	1,147	1,564
		1,339					



## BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 2.	No. 1.	No. 2.	No. 214.	No. 215.	No. 1.
		212.—No. 2.	213.—No. 1.	213.—No. 2.	No. 214.	No. 215.	216.—No. 1.
	Engineers' estimate, .....	\$1,604	\$1,337	\$1,377	\$1,316	\$1,377	\$1,611
680	Andrus, S., .....	1,323	.....	.....	.....	.....	1,426
461	Akenhead, W. & R., .....	.....	.....	.....	.....	.....	1,515
....	Akenhead, F. & Co., .....	.....	.....	.....	.....	.....	2,062
762	Brintnall, H. & Co., .....	1,511	1,264	1,300	1,245	1,300	1,518
1,020	Barry, M. & Co., .....	1,442	1,283	1,333	1,257	1,333	1,540
1,041	Birchard, B. & Co., .....	1,416	1,179	1,211	1,162	1,211	1,421
371	Clark, J. W., .....	3,218	2,978	3,014	2,959	3,014	3,224
133	Clark, E., .....	1,556	1,296	1,338	1,277	1,338	1,565
650	Cady & Butler, .....	1,657	1,386	1,416	1,365	1,426	1,709
669	Caswell, N. B., .....	1,639	1,373	1,409	1,354	1,409	1,645
548	Clark, P. W., .....	1,466	1,245	1,283	1,225	1,283	1,502
969	Candee, Reed & Co., .....	1,468	1,229	1,255	1,260	1,255	1,472
798	Church, R., .....	1,664	1,300	1,348	1,281	1,336	1,563
943	Chase, L., .....	1,295	1,085	1,111	1,072	1,111	1,300
322	Chamberlain, C. T. & Co., .....	1,231	1,022	1,058	1,003	1,058	1,237
581	Chamberlain, C. T. & Co., .....	1,279	1,062	1,098	1,043	1,098	1,285
294	Dodge, J. A. & D. L., .....	1,219	1,098	1,130	1,081	1,130	1,315
417	Ennis, R., .....	1,617	1,344	1,380	1,372	1,389	1,599
306	Ennis, W. H. & Co., .....	1,516	.....	.....	.....	.....	.....
409	Ellicott, J. & Co., .....	1,605	1,340	1,390	1,313	1,390	1,614
453	Field, F. & Co., .....	1,448	1,219	1,253	1,202	1,253	1,454

713	Foster, C. & Co., .....	1,516	1,295	1,345	1,279	1,370	1,614
47	Grant, L. A. G. B., .....	1,690	1,417	1,467	1,390	1,467	1,705
251	Goodrich, J. W., .....	1,345	1,129	1,161	1,812	1,161	1,396
1,089	Houghtaling, A., .....	1,594	1,341	1,377	1,429	1,481	1,722
242	Hughes, J. B., ..	1,370	1,139	1,177	1,119	1,177	1,377
968	Hall, I., .....	1,079	922	946	910	946	1,083
1,226	Kingsbury, F. H., .....	1,527	.....	.....	.....	.....	.....
465	Lyman, A., .....	1,828	1,543	1,589	1,505	1,576	1,843
375	Leach, J. & Co., .....	.....	.....	.....	1,267	1,328	1,549
975	Law, Geo., .....	1,819	1,526	1,512	1,507	1,562	1,825
892	Lee, J. B. & Co., .....	1,719	1,437	1,477	1,416	1,477	1,726
635	Layton, J. & Co., .....	1,624	1,325	1,363	1,355	1,413	.....
1,103	Mitchell, C., .....	719	1,459	1,483	1,477	1,520	1,761
1,063	McGovern, T. & Co., .....	1,930	.....	.....	.....	.....	.....
1,154	Mills, H. P. & Co., .....	1,430	1,192	1,222	1,177	1,222	1,435
1,050	McCartney, H. & Co., .....	1,270	1,058	1,086	1,121	1,163	1,367
460	Miller, J., .....	1,628	.....	.....	.....	.....	.....
838	Marsh, W. N., .....	.....	.....	.....	1,258	1,319	1,542
420	Nellis, R. S., .....	1,313	1,226	1,169	1,093	1,139	1,486
1,069	Nichols, J. H., .....	1,587	1,325	1,395	1,299	1,375	1,595
573	Peck, L. J., .....	1,228	1,015	1,055	994	1,055	1,235
341	Reynolds, A., .....	1,248	1,043	1,073	1,027	1,073	1,253
881	Richman, T. & Co., .....	.....	1,476	1,526	1,450	1,434	1,662
1,168	Severance, H. M., .....	1,421	1,184	1,189	1,167	1,219	1,427
1,007	Smith, P. & Co., .....	1,641	1,372	1,412	1,351	1,412	1,648
269	Voorhies, W., .....	1,382	1,152	1,184	1,136	1,184	1,387

## BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 212.	213.—No. 1.	213.—No. 2.	No. 214.	No. 215.	216.—No. 2.
	Engineers' estimate,.....	\$1,604	\$1,337	\$1,377	\$1,316	\$1,377	\$1,611
1,054	Van Slyck, A. & Co.,.....	.....	1,336	1,364	1,321	1,364	1,547
1,197	Williams, Geo. & Co.,.....	1,636	1,365	1,405	1,344	1,405	1,643
547	Wagner, D. & Co.,.....	1,834	1,107	1,147	1,086	1,147	1,341
684	Williams, A. B. & Co.,.....	.....	.....	.....	.....	1,223	1,495

## BRIDGE ABUTMENTS—From Sections 216 to 218.

No. of propositions.	NAMES OF BIDDERS.	No. 2—216.				No. 1—217.				No. 2—217.				No. 1—218.				No. 2—218.			
		Engineers' estimate,.....				\$1,612				\$1,590				\$1,403				\$1,619			
680	Andrus, S. & Co.....	1,426	1,409	1,292	1,482	1,291	1,490	1,291	1,490	1,291	1,490	1,291	1,490	1,291	1,490	1,291	1,490	1,291	1,490	1,291	1,490
461	Akenhead, W. & R. A.....	1,516	1,494	1,333	1,523	1,331	1,533	1,331	1,533	1,331	1,533	1,331	1,533	1,331	1,533	1,331	1,533	1,331	1,533	1,331	1,533
671	Akenhead, T. & Co.....	2,067	1,957	1,937	2,103	1,927	1,957	1,927	1,957	1,927	1,957	1,927	1,957	1,927	1,957	1,927	1,957	1,927	1,957	1,927	1,957
762	Brintnall, H.....	1,519	1,499	1,324	1,525	1,322	1,534	1,322	1,534	1,322	1,534	1,322	1,534	1,322	1,534	1,322	1,534	1,322	1,534	1,322	1,534
1,020	Barry, M. & Co.....	1,542	1,514	1,366	1,550	1,363	1,563	1,363	1,563	1,363	1,563	1,363	1,563	1,363	1,563	1,363	1,563	1,363	1,563	1,363	1,563
1,041	Birchard, J. & Co.....	1,422	1,404	1,232	1,428	1,230	1,436	1,230	1,436	1,230	1,436	1,230	1,436	1,230	1,436	1,230	1,436	1,230	1,436	1,230	1,436
371	Clark, J. W.....	3,225	3,205	3,037	2,232	3,035	3,241	3,035	3,241	3,035	3,241	3,035	3,241	3,035	3,241	3,035	3,241	3,035	3,241	3,035	3,241
133	Clark, E.....	1,566	1,543	1,364	1,573	1,362	1,583	1,362	1,583	1,362	1,583	1,362	1,583	1,362	1,583	1,362	1,583	1,362	1,583	1,362	1,583
650	Cady & Butler.....	1,710	1,688	1,491	1,717	1,489	1,727	1,489	1,727	1,489	1,727	1,489	1,727	1,489	1,727	1,489	1,727	1,489	1,727	1,489	1,727
669	Caswell, N. B.....	1,646	1,627	1,432	1,653	1,430	1,662	1,430	1,662	1,430	1,662	1,430	1,662	1,430	1,662	1,430	1,662	1,430	1,662	1,430	1,662
548	Clark, P. W.....	1,503	1,482	1,308	1,510	1,306	1,519	1,306	1,519	1,306	1,519	1,306	1,519	1,306	1,519	1,306	1,519	1,306	1,519	1,306	1,519
869	Candee, Reed & Co.....	1,473	1,459	1,272	1,478	1,271	1,484	1,271	1,484	1,271	1,484	1,271	1,484	1,271	1,484	1,271	1,484	1,271	1,484	1,271	1,484
798	Church, R.....	1,564	1,544	1,359	1,570	1,358	1,579	1,358	1,579	1,358	1,579	1,358	1,579	1,358	1,579	1,358	1,579	1,358	1,579	1,358	1,579
943	Chase, L.....	1,300	1,286	1,128	1,305	1,127	1,311	1,127	1,311	1,127	1,311	1,127	1,311	1,127	1,311	1,127	1,311	1,127	1,311	1,127	1,311
322	Chamberlain, C. T. & Co.....	1,238	1,219	1,082	1,245	1,080	1,254	1,080	1,254	1,080	1,254	1,080	1,254	1,080	1,254	1,080	1,254	1,080	1,254	1,080	1,254
581	Chamberlain, C. T. & Co.....	1,286	1,266	1,122	1,292	1,120	1,301	1,120	1,301	1,120	1,301	1,120	1,301	1,120	1,301	1,120	1,301	1,120	1,301	1,120	1,301
294	Dodge, J. A. & D. L.....	1,316	1,299	1,151	1,322	1,151	1,330	1,151	1,330	1,151	1,330	1,151	1,330	1,151	1,330	1,151	1,330	1,151	1,330	1,151	1,330
417	Ennis, R.....	1,600	1,579	1,371	1,589	1,389	1,617	1,389	1,617	1,389	1,617	1,389	1,617	1,389	1,617	1,389	1,617	1,389	1,617	1,389	1,617
409	Ellicott, J.....	1,615	1,588	1,422	1,624	1,420	1,636	1,420	1,636	1,420	1,636	1,420	1,636	1,420	1,636	1,420	1,636	1,420	1,636	1,420	1,636
453	Field, F. & Co.....	1,455	1,437	1,276	1,461	1,274	1,470	1,274	1,470	1,274	1,470	1,274	1,470	1,274	1,470	1,274	1,470	1,274	1,470	1,274	1,470
713	Foster, C. & Co.....	1,591	1,584	1,505	1,610	1,535	1,562	1,535	1,562	1,535	1,562	1,535	1,562	1,535	1,562	1,535	1,562	1,535	1,562	1,535	1,562

## BRIDGE ABUTMENTS—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	No. 2—216.		No. 3—216. <sup>a</sup>		No. 1—217.		No. 2—217.		No. 1—218.		No. 2—218.	
		Engineers' estimate,.....	\$1,612	\$1,590	\$1,403	\$1,619	\$1,401	\$1,629					
47	Grant, L. A. G. B.....		1,706	1,679	1,499	1,715	1,497	1,727					
251	Goodrich, J. W.....		1,397	1,379	1,216	1,402	1,137	1,314					
1,089	Houghtaling, A.....		1,723	1,704	1,439	1,654	1,437	1,661					
242	Hughes, J. B.....		1,378	1,357	1,202	1,384	1,201	1,394					
968	Hall, J.....		1,084	1,077	986	1,088	961	1,094					
496	Lamoreaux, A. O.....						1,268	1,478					
375	Leach, J. & Co.....		1,550	1,619				1,658					
465	Lyman, A.....		1,845	1,834				1,879					
975	Law, G.....		1,826	1,806	1,619	1,867	1,629	1,841					
892	Lee, J. B. & Co.....		1,727	1,705	1,586	1,832	1,584	1,744					
1,103	Mitchell, C.....		1,762	1,747	1,503	1,734	1,501	1,795					
1,154	Mills, H. P. & Co.....		1,436	1,419	1,541	1,768	1,559	1,449					
1,050	McCartney, H. & Co.....		1,368	1,352	1,242	1,441	1,240	1,380					
838	Marsh, W. N.....		1,543	1,521	1,182	1,373	1,180	1,560					
407	Martindale, J. H. & Co.....				1,345	1,550	1,343	1,529					
1,060	McGovern, T. & Co.....				1,242	1,417	1,340						
420	Nellis, R. S.....				1,698	1,952	1,695	1,695					
1,069	Nichols, J. H.....		1,563	1,543	1,219	1,557	1,254	1,618					
573	Peck, L. J.....		1,597	1,569	1,408	1,605	1,405	1,253					
341	Reynolds, A.....		1,236	1,214	1,081	1,243	1,079	1,403					
881	Richman, T. J. & Co.....		1,254	1,237	1,208	1,395	1,146	1,680					
			1,663	1,641	1,459	1,670	1,357						

1,168	Severance, H. M. ....	1,427	1,409	1,241	1,433	1,240	1,442
1,007	Smith, P. & Co. ....	1,649	1,627	1,438	1,655	1,436	1,666
269	Vorhies, W. ....	1,388	1,369	.....	1,392	1,202	1,402
1,054	Van Slyck, A. & Co. ....	1,548	1,532	1,382	1,553	1,380	1,560
92	Van Valkenburgh, D. A. & Co. ....	.....	1,420	1,270	1,456	1,268	1,469
1,197	Williams G. & Co. ....	1,644	1,645	1,464	1,631	1,462	1,693
547	Wagner, D. & Co. ....	1,342	1,320	1,173	1,349	1,171	1,359
684	Williams, A. B. & Co. ....	1,486	1,469	1,333	1,509	1,290	1,505



47	Grant, L. A. G. B.,	1,372	1,602	1,692	1,654	1,836	1,690
251	Goodrich, J. W.,	1,057	1,234	1,297	1,272	1,389	1,381
1,089	Houghtaling, A.,	1,367	1,591	.....	.....	.....	.....
242	Hughes, J. B.,	1,165	1,299	1,367	1,338	1,417	1,365
968	Hall, J.,	901	1,034	1,077	1,059	1,146	1,096
375	Leach, J. & Co.,	1,211	1,467	.....	.....	.....	1,537
465	Lyman, A.,	1,458	1,764	1,847	1,811	1,979	1,844
975	Law, G.,	1,494	1,751	1,816	1,788	1,910	1,814
892	Lee, J. B. & Co.,	1,401	1,644	1,717	1,685	1,831	1,714
1,103	Mitchell, C.,	1,469	1,705	.....	.....	.....	.....
1,154	Mills, H. P. & Co.,	1,165	1,374	1,428	1,404	1,514	1,427
1,050	McCartney, H. & Co.,	1,110	1,310	1,360	1,339	1,441	1,450
838	Marsh, W. N.,	1,243	1,466	.....	.....	.....	1,530
407	Martindale, J. H. & Co.,	1,215	1,304	.....	.....	.....	.....
65	Mirick, J. & H.,	.....	.....	1,605	1,566	1,749	1,602
397	Moore, S.,	.....	.....	.....	.....	.....	1,475
420	Nellis, R. S.,	1,179	1,391	.....	.....	.....	.....
1,069	Nichols, J. H.,	1,280	1,485	1,583	1,544	1,726	1,580
573	Peck, L. J.,	979	1,153	1,225	1,194	1,340	1,223
341	Reynolds, A.,	1,131	1,228	1,382	1,354	1,468	1,380
881	Richman, T. J. Co.,	1,357	1,580	1,652	1,621	1,767	1,650
593	Reilly, L. jr.,	.....	.....	.....	.....	.....	1,639
1,168	Severance, H. M.,	1,155	1,357	1,418	1,392	1,516	1,416
1,007	Smith, P. & Co.,	1,336	1,596	1,638	1,007	1,753	1,628
269	Voorhies, W.,	1,124	1,322	1,379	1,355	1,471	1,378
1,054	Van Slyck, A. & Co.,	1,310	1,490	.....	.....	.....	.....



## BRIDGE ABUTMENTS—(CONTINUED.)

No. of pro- position.	NAMES OF BIDDERS.	No. 3.—218.		No. 4.—218.		No. 1.—219.		No. 2.—219.		No. 3.—219.		No. 1.—228.	
		\$1,803		\$1,529		\$1,606		\$1,995		\$1,716		\$1,599	
	Engineers' estimate, .....												
92	Van Valkenburgh, D. A. & Co., .....	1,143		1,344		.....		.....		.....		.....	
1,197	Williams, G. & Co., .....	1,337		1,561		1,658		1,620		1,802		1,656	
547	Wagner, D. & Co., .....	1,071		1,259		1,331		1,300		1,446		1,329	
684	Williams, A. B. & Co., .....	1,210		1,425		1,473		1,449		1,559		1,393	

## BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 2.—223.		No. 3.—223.		Sec. 229.		No. 1.—231.		No. 2.—231.		Sec. 232.	
		\$1,609		\$1,377		\$1,631		\$1,778		\$1,819		\$1,631	
	Engineers' estimate, .....												
461	Akenhead, W. & R., .....	1,513		1,307		1,535		1,682		1,722		1,535	
629	Briggs, M. & Co., .....	.....		1,005		1,194		1,304		1,335		1,194	
1,762	Brintnall, H. & Co., .....	1,516		1,299		1,536		1,672		1,704		1,536	
1,041	Birchard, B. & Co., .....	1,420		1,211		1,437		1,555		1,587		1,437	
1,022	Barry, M. & Co., .....	1,538		1,333		1,565		1,749		1,800		1,565	
1,119	Barney V. G. & Co., .....	.....		1,269		1,501		.....		1,591		1,437	
371	Clark, J. W., .....	3,223		3,014		3,242		3,378		3,411		3,242	
133	Clark, E., .....	1,563		1,338		1,585		1,732		1,773		1,585	
650	Cady & Butler, .....	1,753		1,503		1,775		1,921		1,962		1,775	
669	Caswell, N. B., .....	1,644		1,409		1,663		1,799		1,832		1,663	
548	Clark, P. W., .....	1,500		1,283		1,521		1,661		1,517		1,521	
869	Candee, Reed & Co., .....	1,471		1,255		1,485		1,581		1,607		1,485	
798	Church, R., .....	1,561		1,336		1,581		1,717		1,750		1,581	
943	Chase, L., .....	1,298		1,111		1,312		1,408		1,434		1,312	
322	Chamberlain, C. T. & Co., .....	1,236		1,058		1,255		1,391		1,424		1,255	
581	Chamberlain, C. T. & Co., .....	1,283		1,098		1,303		1,439		1,472		1,303	
294	Dodge, J. L. & D. A., .....	1,314		1,127		1,331		1,449		1,481		1,339	
419	Ennis, R., .....	1,582		1,354		1,631		1,724		1,757		1,612	
409	Ellicott, J. & Co., .....	1,611		1,390		1,586		1,822		1,873		1,639	
453	Field, F. & Co., .....	1,453		1,253		1,471		1,596		1,631		1,471	
47	Grant, L. A. G. B., .....	1,692		1,467		1,730		1,913		1,964		1,730	

# BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.					Sec. 232.		
	No. 2.—238.	No. 3.—223.	Sec. 229.	No. 1.—231.	No. 2.—231.	Sec. 232.		
	\$1,609	\$1,377	\$1,631	\$1,778	\$1,819	\$1,631		
251	Goodrich, J. W.,	1,389	1,195	1,407	1,501	1,530	1,407	
242	Hughes, J. B.,	1,375	1,177	1,396	1,535	1,574	1,396	
968	Hall, S.,	1,102	963	1,135	1,223	1,248	1,135	
924	Hunt, S. J.,				1,380	1,408	1,277	
278	Kenyon, D.,				1,505		1,370	
465	Lyman, A.,	1,850	1,589	1,881	2,035	2,097	1,881	
975	Law, G.,	1,816	1,555	1,835	1,974	2,012	1,843	
892	Lee, J. B. & Co.,	1,724	1,477	1,746	1,892	1,933	1,746	
375	Leach, J. & Co.,	1,547	1,328	1,569			1,619	
496	Lamoureux, A. O.,	1,450	1,235	1,518	1,634	1,661	1,434	
1,050	McCartney, H. & Co.,	1,457	1,240	1,472	1,575	1,603	1,472	
1,154	Mills, H. P. & Co.,	1,434	1,223	1,451	1,560	1,591	1,451	
838	Marsh, W. N.,	1,540	1,319	1,562			1,562	
65	Mirick, J. & H.,	1,615	1,387	1,642	1,826	1,877	1,642	
397	Moore, S.,	1,484	1,267	1,504	1,640	1,672	1,504	
1,064	Nichols, J. H.,	1,593	1,375	1,620	1,804	1,855	1,620	
573	Peck, L. J.,	1,233	1,055	1,255	1,401	1,442	1,255	
341	Reynolds, A.,	1,388	1,188	1,404				
881	Richman, T. J. & Co.,	1,660	1,433	1,682	1,828	1,779	1,682	
593	Reilly, L. jr.,	1,651	1,417	1,679	1,862	1,913	1,679	
1,168	Severance, H. M.,	1,425	1,219	1,444	1,568	1,603	1,444	

1,007	Smith, P. & Co., .....	1,638	1,404	1,660	1,807	1,848	1,660
269	Voorhies, W., .....	1,386	1,261	1,494	1,611	1,644	1,494
684	Williams, A. B. & Co., .....	1,402	1,197	1,431	.....	.....	.....
1,197	Williams, G. & Co., .....	1,678	1,432	1,696	1,879	1,930	1,696
547	Wagner, D. & Co., .....	1,339	1,147	1,361	1,598	1,639	1,452



472	Watts, E. & Co.,	1,470	1,376	1,432	1,607	1,657	1,649
453	Field, F. & Co.,	1,727	1,590	1,671	1,470	1,523	1,530
47	Grant, L. A. G. B.,	1,405	1,317	1,369	1,727	1,805	1,816
251	Geodrich, J. W.,	1,134	1,068	1,107	1,410	1,460	.....
968	Hall, I.,	1,276	1,199	1,244	1,134	1,171	1,077
924	Hunt, G. J.,	1,394	1,289	1,351	1,276	1,319	1,326
242	Hughes, J. B.,	.....	.....	.....	1,394	1,453	1,462
893	Hudnutt, J. O. & Co.,	.....	.....	.....	.....	.....	1,544
278	Kenyon, D.,	1,452	1,338	1,395	1,508	1,562	1,478
496	Lamoureux, A. O.,	1,422	1,339	1,389	1,494	1,545	1,473
892	Lee, J. B. & Co.,	1,744	1,634	1,699	1,744	1,806	1,819
465	Lyman, A.,	1,879	1,752	1,827	1,879	1,950	1,961
975	Law, G.,	1,841	1,742	1,801	1,842	1,897	1,905
375	Leach, J. & Co.,	1,567	1,457	1,522	1,567	1,629	.....
397	Moore, S.,	1,502	1,403	1,461	1,502	1,558	1,566
65	Mirick, J. & H.,	1,640	1,502	1,584	1,640	1,717	1,729
1,056	McCartney, H. & Co.,	1,471	1,394	1,439	1,471	1,514	1,520
1,154	Mills, H. P. & Co.,	1,449	1,367	1,415	1,449	1,496	1,502
838	Marsh, W. N.,	.....	1,450	1,515	.....	.....	.....
1,064	Nichols, J. H.,	1,618	1,480	1,562	1,618	1,695	1,707
573	Peck, L. J.,	1,253	1,143	1,208	1,253	1,315	1,324
986	Palmer, P. & Co.,	.....	.....	.....	.....	.....	1,426
593	Reilly, L. Jr.,	1,676	1,539	1,620	1,676	1,754	1,675
869	Reed, Candee & Co.,	1,484	1,413	1,455	1,484	1,524	1,530
881	Richman, T. J. & Co.,	1,680	1,570	1,635	1,680	1,742	1,751
1,007	Smith, P. & Co.,	1,658	1,548	1,614	1,294	1,720	1,730

## BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition	NAMES OF BIDDERS.	No. 233.	No. 1.—234.	No. 2.—234.	No. 1.—235.	No. 2.—235.	No. 237.
		\$1,629	\$1,519	\$1,584	\$1,629	\$1,691	\$1,700
1,168	Engineers' estimate,.....						
269	Severance, H. M.,.....	1,442	1,348	1,406	1,442	1,495	1,502
547	Voorhies, W.,.....	1,493	1,405	1,457	1,493	1,542	1,550
1,197	Wagner, D. & Co.,.....	1,450	1,340	1,405	1,440	1,512	1,521
	Williams, G. & Co.,.....	1,693	1,556	1,637	1,693	1,771	1,782

## BRIDGE ABUTMENTS—(Continued.)

No. of proposition.	NAMES OF BIDDERS.	No. 238.	N. 1.—239.	No. 2.—239.	No. 1.—241.	No. 2.—241.	No. 1.—242.
		\$1,302	\$1,396	\$1,402	\$1,629	\$1,391	\$1,692
	Engineers' estimate,.....						
1,041	Birchard, B. & Co., .....	1,152	1,230	1,226	1,436	1,222	1,486
1,020	Barry, M. & Co., .....	1,241	1,364	1,357	1,563	1,347	1,641
629	Briggs, M. & Co., .....	950	1,024	1,019	1,193	1,015	1,239
762	Brintnall, H. & Co., .....	1,234	1,322	1,317	1,534	1,312	1,589
119	Barney, V. G. & Co., .....	.....	.....	.....	.....	.....	.....
1,144	Boyce, P., .....	1,160	1,156	1,152	1,508	1,226	1,471
1,136	Boyce, M. & Co., .....	.....	1,386	1,382	1,620	1,417	1,624
44	Brown & Keyes, .....	.....	.....	.....	1,475	1,261	1,525
371	Clark, J. W., .....	2,947	3,036	3,031	3,241	3,026	3,297
133	Clark, E., .....	1,264	1,362	1,357	1,583	1,351	1,646
798	Church, R., .....	1,269	1,358	1,350	1,579	1,349	1,636
322	Chamberlain, C. T. & Co., .....	992	1,080	1,075	1,254	1,070	1,310
581	Chamberlain, C. T. & Co., .....	1,032	1,120	1,115	1,301	1,111	1,358
650	Cady & Butler, .....	1,429	1,528	1,522	1,818	1,556	1,881
669	Caswell, N. B., .....	1,342	1,440	1,426	1,662	1,425	1,718
548	Clark, P. W., .....	1,213	1,307	1,301	1,519	1,296	1,579
943	Chase, L., .....	1,063	1,124	1,124	1,311	1,122	1,352
869	Candee, Reed & Co., .....	.....	1,271	1,267	1,484	1,265	1,525
294	Dodge, J. A. & Co., .....	1,071	1,304	1,299	1,512	1,295	1,562
472	Ennis, E. & Co., .....	1,284	1,363	1,358	1,539	1,303	1,588
409	Ellicott, J. & Co., .....	1,297	1,420	1,413	1,636	1,405	1,715



## BRIDGE ABUTMENTS.—(CONTINUED)

No. of proposition.	NAMES OF BIDDERS.	No. 238.	No. 1.—239.	No. 2.—239	No. 1.—241.	No. 2.—241.	No. 1.—242.
		\$1,303	\$1,396	\$1,402	\$1,629	\$1,391	\$1,693
306	Ennis, W. H. & Co.....	1,208	1,307	1,301	1,521	1,295	1,584
453	Field, F. & Co.....	1,191	1,274	1,270	1,470	1,267	1,523
47	Grant, L. A. G. B.....	1,374	1,497	1,490	1,727	1,482	1,799
968	Hall, Isaac.....	918	979	974	1,134	973	1,172
924	Hunt, S. J.....	1,026	1,095	1,091	1,276	1,088	1,320
242	Hughes, J. B.....	1,107	1,201	1,195	1,394	1,190	1,454
893	Hudnutt, J. O. & Co.....	1,199	1,277	1,273	1,483	1,270	1,538
278	Kenyon, D.....	1,149	1,225	.....	1,360	1,166	1,482
515	Knapp, E.....	.....	1,185	1,221	1,447	1,333	1,498
496	Lamoureux, A. O.....	1,142	1,216	.....	.....	.....	.....
892	Lee, J. B. & Co.....	1,403	1,502	1,496	1,744	2,530	1,807
465	Lyman, A.....	1,504	1,617	1,611	1,879	1,609	1,951
975	Law, Geo.....	1,496	1,584	1,579	1,841	1,576	1,898
375	Leach, J. & Co.....	.....	.....	.....	1,564	1,341	1,630
397	Moore, Samuel.....	.....	.....	.....	1,502	1,279	1,559
65	Mirick, Ira & Co.....	1,200	1,289	1,284	1,640	.....	.....
1,154	Mills, H. P. & Co.....	1,295	1,418	1,411	1,640	.....	.....
1,064	Nichols, J. H.....	1,167	1,241	1,237	1,449	1,235	1,496
573	Peck, L. J.....	1,283	1,406	1,397	1,618	1,389	1,697
986	Palmer, P. & Co.....	981	1,080	1,074	.....	1,069	1,315
593	Reilly, L., Jr.....	1,113	1,182	1,178	1,376	1,175	1,421
		1,324	1,447	1,441	.....	.....	.....

869	Reed, Candee & Co.....	1,207	.....	1,458	..	1,452	.....	1,690	.....	1,445	.....	1,742
881	Richman, T. J. & Co.....	1,359	.....	1,429	1,423	1,423	1,658	1,658	1,418	1,418	1,721	
1,007	Smith, P. & Co.....	1,330	.....	1,240	1,235	1,235	1,442	1,442	1,232	1,232	1,495	
1,168	Severance, H. M.....	1,156	.....	1,281	1,277	1,277	1,493	1,493	1,273	1,273	1,543	
269	Voorhies, W.....	1,202	.....	1,238	1,243	1,243	1,450	1,450	1,237	1,237	1,512	
547	Wagner, D. & Co.....	1,150	.....	1,462	1,455	1,455	1,693	1,693	1,447	1,447	1,772	
1,197	Williams, G. & Co.....	1,339	.....									

## BRIDGE ABUTMENTS—From Sections 242 to 245.

No. of proposition.	NAMES OF BIDDERS.	No. 2-242.			No. 243.			No. 245.		
		\$1,401			\$1,631			\$1,914		
	Engineers' estimate,.....									
1,144	Boyce, P.....	1,226			1,334			1,661		
1,136	Boyce, M. & Co.....	1,380			1,631			1,833		
762	Brintnall, H. & Co.....	1,301			1,535			1,813		
629	Briggs, M. & Co.....	1,023			1,194			1,427		
1,041	Birchard, B. & Co.....	1,231			1,437			1,691		
1,020	Barry, M. & Co.....	1,363			1,565			1,848		
44	Brown & Keyes.....	1,268			1,476			1,753		
371	Clark, J. W.....	3,035			3,242			3,515		
133	Clark, E.....	1,362			1,585			1,879		
650	Cady & Butler.....	1,566			1,820			2,145		
669	Caswell, N. B.....	1,430			1,663			1,963		
548	Clark, P. W.....	1,306			1,521			1,804		
798	Church, R.....	1,358			1,581			1,878		
869	Candee, Reed & Co.....	1,271			1,485			1,751		
943	Chase, L.....	1,128			1,312			1,571		
322	Chamberlain & Bradley.....	1,080			1,255			1,503		
581	Chamberlain & Edgerton.....	1,120			1,303			1,569		
294	Dodge, J. A. & Co.....	1,303			1,513			1,787		
472	Ennis, E. & Co.....	1,317			1,581			.....		
306	Ennis, W. H. & Co.....	1,306			1,523			1,811		
409	Ellisott, J. & Co.....	1,420			1,639			1,969		

453	Field, F. & Co.	1,274	1,471	1,747
47	Grant, L. A. G. B.	977	1,736	.....
968	Hall, J.	1,095	1,135	1,340
924	Hunt, S. J.	1,200	1,277	1,524
242	Hughes, J. B.	1,177	1,396	1,664
893	Hudnutt, J. O. & Co.	1,194	1,489	1,766
278	Kenyon, D.	1,235	1,372	.....
515	Knapp, E.	1,617	1,562	1,928
465	Lyman, A.	1,584	1,881	2,236
975	Law, G.	1,501	1,843	2,171
892	Lee, J. B. & Co.	1,352	1,746	2,057
375	Leach, J. & Co.	1,209	.....	.....
397	Moore, S.	1,241	1,504	1,777
1,154	Mills, H. P. & Co.	1,405	1,451	1,722
1,064	Nichols, J. H.	1,182	1,620	1,918
986	Palmer, P. & Co.	1,079	1,378	1,613
573	Peck, L. J.	1,457	1,255	1,498
881	Richman, T. J. & Co.	1,428	1,682	1,979
1,007	Smith, P. & Co.	1,240	1,660	1,970
1,168	Severance, H. M.	1,281	1,444	1,726
269	Voorhies, William	1,248	1,494	1,769
547	Wagner, D. & Co.	1,462	1,452	1,733
1,197	Williams, G. & Co.	.....	1,696	2,028

## INDEPENDENT LINE.—BRIDGE ABUTMENTS.—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 246.	No. 247.	No. 249.	No. 1.—252.	No. 2.—252.	No. 253.
		\$1,248	\$1,248	\$1,248	\$1,248	\$1,061	\$1,248
1,144	Engineer's estimate,.....						
762	Boyce, Peter.....	1,303	1,310	1,310	1,265	1,090	1,223
1,020	Brintnall, H. & Co.,.....	1,341	1,341	1,341	1,341	1,154	1,341
44	Barry, M. & Co.,.....	1,351	1,351	1,351	1,352	1,175	1,352
1,040	Brown, E. & Co.,.....	1,288	1,379	1,379	1,379	1,181	1,379
869	Birchard, B. & Co.,.....	.....	.....	.....	1,209	1,042	1,209
650	Candee, W. & Co.,.....	1,335	1,335	1,335	1,335	1,139	1,335
210	Cady, H. & Co.,.....	1,598	1,598	1,598	1,598	1,373	1,598
768	Curtiss, D. F.,.....	1,225	1,225	1,225	1,225	1,050	1,225
943	Church, R.,.....	1,374	1,374	1,374	1,374	1,178	1,374
322	Chase L.,.....	1,222	1,222	1,222	1,222	1,047	1,222
581	Chamberlain & Bradley,.....	1,045	1,045	1,045	1,045	898	1,045
409	Chamberlain & Edgerton,.....	1,051	1,051	1,051	1,051	904	1,051
306	Ellicott, J. & Co.,.....	1,386	1,386	1,386	1,386	1,194	1,386
453	Ennis, W. H. & Co.,.....	1,307	1,307	1,307	1,307	1,119	1,307
924	Field, F. & Co.,.....	1,238	1,238	1,238	1,238	1,075	1,238
242	Hunt, S. J.,.....	1,118	1,118	1,118	1,118	956	1,118
1,160	Hughes, J. B.,.....	1,185	1,185	1,185	1,185	1,017	1,185
1,159	McGovern, T. & Co.,.....	.....	1,703	1,703	1,703	1,457	.....
124	McWilliams, E. & A.,.....	.....	.....	2,417	2,286	2,023	2,322
407	McCabe, J. & Co.,.....	1,188	1,188	1,178	1,178	1,013	1,183
	Martindale, J. H. & Co.,.....	.....	1,417	1,417	1,418	1,229	1,418

1,154	Mills, H. P. & Co., .....	1,258	1,258	1,258	1,077	1,258	1,258	1,077	1,258
1,069	Nichols, J. H., .....	1,431	1,431	1,431	1,244	1,431	1,431	1,244	1,431
467	Oswald, J. & Co., .....	1,076	1,076	1,076	930	1,075	1,075	930	1,075
366	Osburn, N. & Co., .....	.....	.....	.....	.....	.....	.....	.....	1,672
573	Peck, L. J., .....	1,043	1,043	1,043	896	1,043	1,043	896	1,043
1,168	Severance, H. M., .....	1,222	1,222	1,222	1,047	1,222	1,222	1,047	1,222
806	Swain, J. B. & Co., .....	1,049	1,049	1,049	902	1,049	1,049	902	1,049
584	Selye, Lewis .....	1,333	1,333	1,333	1,138	1,324	1,324	1,138	1,333
1,197	Williams, G. & Co., .....	1,429	1,429	1,429	1,226	1,429	1,429	1,226	1,429
547	Wagner, D. & Co., .....	1,324	1,324	1,324	1,134	1,321	1,321	1,134	1,321

## INDEPENDENT LINE—BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Section 256.			Section 257.		
		No. 254.	No. 1.	No. 2.	No. 1.	No. 2.	No. 3.
	Engineers' estimate, . . . . .	\$1,248	\$1,061	\$1,248	\$1,061	\$1,248	\$1,061
1,144	Boyce, Peter, . . . . .	\$1,279	1,040	1,188	1,040	1,208	1,078
762	Brintnall, H. & Co., . . . . .	1,341	1,154	1,341	1,154	1,341	1,154
1,020	Barry, M. & Co., . . . . .	1,352	1,175	1,352	1,175	1,351	1,160
44	Brown, E. & Co., . . . . .	1,379	1,181	1,379	1,181	1,379	1,181
1,044	Birchard, B. & Co., . . . . .	1,163	1,004	1,163	1,004	1,163	1,004
869	Candee, W. & Co., . . . . .	1,335	1,139	1,335	1,139	1,335	1,139
650	Cady, H. & Co., . . . . .	1,598	1,373	1,598	1,373	1,598	1,373
213	Curtiss, D. F., . . . . .	1,225	1,050	1,225	1,050	1,225	1,050
798	Church, R., . . . . .	1,374	1,178	1,374	1,178	1,374	1,178
943	Chase, L., . . . . .	1,222	1,047	1,222	1,047	1,222	1,047
322	Chamberlain & Bradley, . . . . .	1,045	898	1,045	898	1,045	898
581	Chamberlain & Edgerton, . . . . .	1,051	904	1,051	904	1,051	904
294	Dodge, J. A. & Co., . . . . .	1,429	1,226	1,429	1,226	1,428	1,226
409	Ellicott, J. & Co., . . . . .	1,386	1,194	1,386	1,194	1,386	1,194
306	Ennis, W. & Co., . . . . .	1,367	1,119	1,307	1,119	1,307	1,119
453	Field, F. & Co., . . . . .	1,238	1,075	1,238	1,075	1,238	1,075
924	Hunt, S. J., . . . . .	1,118	956	1,123	956	1,118	956
242	Hughes, J. B., . . . . .	1,185	1,017	1,185	1,017	1,185	1,017
1,159	McWilliams, E. & A., . . . . .	2,420	2,163	2,428	2,230	2,409	2,150
134	McCabe, J. & Co., . . . . .	1,183	1,023	1,188	1,023	1,188	1,023
407	Martindale, J. & Co., . . . . .	1,418	1,121	1,418	1,120	1,309	1,120

1,154	Mills, H. P. & Co.,	1,258	1,077	1,258	1,077	1,258	1,077
1,069	Nichols, J. H.,	1,431	1,244	1,431	1,234	1,431	1,234
1,467	Oswald, J. & Co.,	1,076	930	1,076	930	1,075	940
366	Osburn, N. & Co.,	1,626	1,433	1,672	1,433	1,672	1,433
573	Peck, L. J.,	1,043	896	1,043	896	1,043	896
806	Swain, J. B. & Co.,	1,047	941	1,095	941	1,095	941
1,013	Sharp, D.,	.....	913	1,050	913	1,060	913
1,168	Severance, H. M.,	1,222	1,047	1,222	1,047	1,222	1,047
584	Selye, L.,	1,288	1,173	1,375	1,173	1,375	1,173
1,197	Williams, G. & Co.,	1,429	1,226	1,429	1,226	1,429	1,226
547	Wagner, D. & Co.,	1,324	1,134	1,324	1,134	1,304	1,134



## INDEPENDENT LINE—BRIDGE ABUTMENTS—(CONTINUED.)

No of proposition.	NAMES OF BIDDERS.	Section 253.		Section 260.		Section 262.	
		No. 1.	No. 2.	No. 1.	No. 2.	No. 1.	No. 2.
	Engineers' estimate, . . . . .	\$1,061	\$1,248	\$1,248	\$1,061	\$1,248	\$2,801
762	Brintnall, H. & Co., . . . . .	1,154	1,341	1,342	1,154	1,342	2,865
1,020	Barry, M. & Co., . . . . .	1,175	1,352	1,352	1,175	1,352	2,811
44	Brown, E. & Co., . . . . .	1,181	1,379	1,288	1,104	1,288	2,755
1,040	Birchard, B. & Co., . . . . .	1,004	1,164	984	1,114	1,147	2,470
597	Bell, J. L., . . . . .	.....	.....	.....	.....	1,251	2,600
869	Candee, W. & Co., . . . . .	1,139	1,335	1,335	1,139	1,335	2,905
650	Cady, H. & Co., . . . . .	1,373	1,598	1,593	1,373	1,553	3,420
213	Curtiss, D. F., . . . . .	1,051	1,225	1,226	1,051	1,226	2,651
798	Church, R., . . . . .	1,178	1,375	1,376	1,178	1,376	2,962
943	Chase, L., . . . . .	1,047	1,222	1,222	1,048	1,222	2,631
322	Chamberlain & Bradley, . . . . .	898	1,045	1,227	898	1,045	898
581	Chamberlain & Edgerton, . . . . .	904	1,051	1,051	904	1,051	904
4	Charlick, O., . . . . .	.....	.....	.....	.....	1,638	3,407
909	Colt, H. V., . . . . .	.....	.....	.....	.....	1,448	3,088
294	Dodge, J. A. & Co., . . . . .	1,226	1,429	1,429	1,226	.....	.....
9-407	Ellicott, J. & Co., . . . . .	1,195	1,386	1,386	1,195	1,386	2,893
306	Ennis, W. H. & Co., . . . . .	1,119	1,307	1,312	1,164	1,312	2,846
453	Field, F. & Co., . . . . .	1,075	1,238	1,238	1,076	1,238	2,568
924	Hunt, S. J., . . . . .	956	1,118	1,118	907	1,118	.....
242	Hughes, J. B., . . . . .	1,017	1,185	1,185	1,015	1,141	2,859
602	Hardy, J., . . . . .	.....	.....	.....	.....	1,165	2,673



## BRIDGE ABUTMENTS—From Section 266 to 270.

No. of proposition.	NAMES OF BIDDERS.	No. 266.	No. 267.	No. 268.	No. 1—270.	No. 2—270.	No. 3—270.
		Engineers' estimate, .....	\$1,280	\$1,597	\$1,280	\$1,597	\$1,597
762	Brintnall, H. & Co. ....	2,585	1,367	1,639	1,367	1,639	1,639
1,042	Birchard, B. & Co. ....	2,069	1,189	1,499	1,233	1,499	1,499
315	Butler, O. jun. & Co. ....	2,218	1,169	1,408	1,069	1,408	1,408
1,020	Barry, M. & Co. ....	2,548	1,377	1,653	1,377	1,653	1,653
597	Bell, J. L. ....	2,402	1,258	1,515	1,263	1,505	1,515
519	Clark, J. L. & Co. ....	2,023	1,070	1,286	1,070	1,286	1,286
650	Cady, H. & Co. ....	3,071	1,623	1,942	1,623	1,942	1,942
909	Colt, H. V. ....	2,794	1,482	1,772	1,482	1,772	1,772
322	Chamberlain & Bradley. ....	2,067	1,087	1,319	1,087	1,319	1,319
869	Candee, W. & Co. ....	2,594	1,346	1,604	1,346	1,604	1,604
798	Church, R. ....	2,583	1,359	1,631	1,359	1,631	1,631
943	Chase, L. ....	2,378	1,254	1,502	1,254	1,502	1,501
4	Charlick, O. ....	3,133	1,655	1,975	1,655	1,975	1,975
213	Curtiss, D. F. ....	2,425	1,269	1,536	1,269	1,536	1,536
306	Ennis, W. H. & Co. ....	2,576	1,344	.....	1,338	1,614	1,614
409	Ellicott, J. & Co. ....	2,520	1,344	1,621	1,344	1,621	1,621
453	Field, F. & Co. ....	2,366	1,287	1,540	1,287	1,540	1,540
893	Hudnutt, J. O. & Co. ....	2,499	1,315	1,984	1,315	1,984	1,984
602	Hardy, J. ....	2,229	1,080	1,412	1,175	1,392	1,414
968	Hall, Isaac. ....	1,969	1,043	1,242	1,042	1,242	1,242

279	Hinds, F. & Co	2,703	1,431	1,732	1,431	1,732	1,431	1,732	1,732	1,732
242	Hughes, J. B.	2,328	1,134	1,374	1,134	1,374	1,134	1,374	1,374	1,374
924	Hunt, S. J.	2,002	1,050	1,265	1,050	1,265	1,050	1,265	1,265	1,265
248	Jenkinson, J. & Co.	2,509	1,327	1,590	1,331	1,572	1,331	1,572	1,572	1,572
150	Jackson, J. & Co.	2,690	1,448	1,682	1,448	1,682	1,448	1,682	1,682	1,682
1,015	Learned, E. & Co.	2,990	1,702	2,012	1,702	2,012	1,702	2,012	2,012	2,012
892	Lee, J. B. & Co.	2,927	1,547	1,861	1,547	1,861	1,547	1,861	1,861	1,861
1,060	McGovern, T. & Co.	3,340	.....	.....	1,742	2,098	1,742	2,098	2,098	2,098
124	McCabe, J. & Co.	2,340	1,221	1,319	1,221	1,319	1,221	1,319	1,354	1,354
1,154	Mills, H. P. & Co.	2,460	1,286	1,547	1,286	1,547	1,286	1,547	1,547	1,547
348	Milliner, J. P. & Co.	2,523	1,319	1,591	1,369	1,632	1,369	1,632	1,642	1,642
1,069	Nichols, J. H.	2,588	1,387	1,681	1,387	1,681	1,387	1,681	1,681	1,681
366	Osburn, N. & Co.	3,122	.....	2,016	.....	2,016	.....	2,016	2,016	2,016
217	O'Neill, William, jun. & Co.	.....	1,288	1,528	1,288	1,528	1,288	1,528	1,528	1,528
573	Peck, L. J.	2,071	1,087	1,322	1,087	1,322	1,087	1,322	1,322	1,322
1,123	Ross, M. L.	2,587	1,350	1,624	1,350	1,624	1,350	1,624	1,624	1,624
588	Ryan, J. & Co.	2,385	1,243	1,507	1,243	1,507	1,243	1,507	1,507	1,507
584	Selye, L.	2,506	1,348	1,616	.....	.....	.....	.....	.....	.....
1,013	Sharp, D. & Co.	2,107	1,105	1,350	1,105	1,350	1,105	1,350	1,350	1,350
991	Spencer, J. O.	2,920	1,533	1,835	1,533	1,835	1,533	1,835	1,835	1,835
1,168	Severance, H. M.	2,402	1,257	1,517	1,257	1,517	1,257	1,517	1,517	1,517
1,007	Smith, P. & Co.	2,626	1,386	1,667	1,386	1,667	1,386	1,667	1,667	1,667
604	Thompson, J. R.	2,109	1,122	1,341	1,122	1,341	1,122	1,341	1,341	1,341
75	Turner, Otis	2,868	1,544	1,841	1,544	1,841	1,544	1,841	1,841	1,841
570	Thomson, C. B. & Co.	2,360	1,247	.....	1,247	.....	1,247	1,494	1,494	1,494
1,159	Williams, E. M. & Co.	4,177	.....	.....	.....	.....	.....	.....	.....	.....
1,197	Williams, G. & Co.	2,785	1,463	1,759	1,463	1,759	1,463	1,759	1,759	1,759

# BRIDGE ABUTMENTS—(CONTINUED.)

No. of position.	NAMES OF BIDDERS.	No. 266.	No. 267.	No. 268.	No. 1—270.	No. 2—270.	No. 3—270.
	Engineers' estimate, .....	\$1,597	\$1,280	\$1,597	\$1,280	\$1,597	\$1,597
1,118	Wright, J. T. & Co. ....	2,801	1,486	1,777	1,486	1,777	1,777
841	Wood, A. D. & Co. ....	2,541	1,374	1,671	1,374	1,671	1,671
547	Wagner, D. & Co. ....	2,179	1,144	1,381	1,144	1,381	1,381
1,000	Walker, W. ....	2,242	1,197	1,432	1,197	1,432	1,432

## BRIDGE ABUTMENTS.—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 4.—270.	No. 5.—270.	0. 271.	No. 1.—272.	No. 2.—272.	No. 273.
		\$1,597	\$1,280	\$1,280	\$1,597	\$1,597	\$1,597
762	Brintnall, H. & Co.	1,639	1,367	1,367	1,639	1,639	1,639
1,042	Burchard, B. & Co.	1,499	1,233	1,269	1,531	1,531	1,531
315	Butler, O., Jr., & Co.	1,408	1,169	1,169	1,408	1,408	1,408
1,020	Barry, M. & Co.	1,658	1,377	.....	.....	.....	.....
597	Bell, J. L.	1,515	1,263	1,258	1,505	1,505	1,505
519	Clark, J. L.	1,286	1,070	1,070	1,286	1,286	1,286
650	Cady, H. & Co.	1,942	1,623	1,623	1,942	1,942	1,942
909	Colt, H. V.	1,772	1,482	1,482	1,772	1,772	1,772
322	Chamberlain & Bradley,	1,319	1,087	1,087	1,319	1,319	1,319
869	Candee, W. & Co.	1,604	1,346	1,346	1,604	1,604	1,604
798	Church, A.	1,631	1,359	1,359	1,631	1,631	1,631
943	Chase, L.	1,502	1,254	1,254	1,502	1,502	1,502
4	Charlick, O.	1,975	1,655	1,655	1,975	1,975	1,975
213	Curtiss, D. F.	1,536	1,269	1,269	1,536	1,536	1,536
306	Ennis, W. H. & Co.	1,614	1,338	1,338	1,611	1,611	1,611
409	Ellicott, J. & Co.	1,621	1,344	1,344	1,621	1,621	1,621
453	Field, F. & Co.	1,540	1,287	1,287	1,540	1,540	1,540
893	Hudnutt, J. O. & Co.	1,984	1,305	.....	.....	.....	.....
602	Hardy, J.	1,422	1,173	1,173	1,463	1,412	1,412
968	Hall, J.	1,242	1,042	1,042	1,242	1,242	1,242
279	Hinds, F. & Co.	1,792	1,431	1,431	1,732	1,732	1,732

## BRIDGE ABUTMENTS.—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 4.—270.	No. 5.—270.	No. 271.	No. 1.—272.	No. 2.—272.	No. 272.
		\$1,597	\$1,280	\$1,280	\$1,597	\$1,597	\$1,597
242	Engineers' estimate,.....						
924	Hughes, J. B.....	1,374	1,134	1,245	1,507	1,507	1,507
248	Hunt, S. J.....	1,265	1,050	1,050	1,265	1,265	1,265
150	Jenkinson, J. & Co.....	1,586	1,325	1,321	1,585	1,585	1,596
1,015	Jackson, J. & Co.....	1,682	1,448	1,448	1,682	1,682	1,682
892	Learned, E. & Co.....	2,012	1,702	1,702	2,012	2,012	2,012
1,060	Lee, J. B.....	1,861	1,547	1,547	1,861	1,861	1,861
124	McGovern, T. & Co.....	2,098	1,742	.....	.....	.....	.....
1,154	McCabe, J. & Co.....	1,354	1,127	1,142	1,369	1,369	1,316
348	Mills, H. P. & Co.....	1,547	1,286	1,286	1,547	1,547	1,547
638	Milliner, J. P. & Co.....	1,642	1,369	1,369	1,642	1,642	1,642
1,069	Marsh, W. N.....	.....	.....	1,375	1,654	1,654	1,654
366	Nichols, J. H.....	1,681	1,387	1,387	1,681	1,681	1,681
217	Osburn, N. & Co.....	2,016	.....	.....	2,016	2,016	.....
573	O'Neill, W. & Co.....	1,528	1,288	.....	.....	.....	.....
1,123	Peck, L. J.....	1,322	1,087	1,009	1,220	1,220	1,220
588	Ross, M. L.....	1,624	1,350	1,350	1,624	1,624	1,624
1,013	Ryan, J. & Co.....	1,507	1,243	1,243	1,507	1,507	1,507
991	Sharp, D. & Co.....	1,350	1,105	1,105	1,350	1,350	1,850
1,168	Spencer, J. O.....	1,835	1,533	1,533	1,835	1,835	1,835
1,007	Severance, H. M.....	1,517	1,257	1,260	1,522	1,522	1,522
	Smith, P. & Co.....	1,667	1,386	1,386	1,667	1,667	1,667

604	Thompson, J. R.....	1,341	1,122	1,122	1,122	1,449	1,449	1,449	1,449
75	Turner, O.....	1,841	1,544	1,544	1,544	1,841	1,841	1,841	1,841
570	Thomson, C. B. & Co.....	1,494	1,247	1,247	1,247	1,494	1,494	1,494	1,494
1,197	Williams, G. & Co.....	1,759	1,463	1,463	1,463	1,759	1,759	1,759	1,759
1,118	Wright, J. T. & Co.....	1,777	1,486	1,486	1,486	1,777	1,777	1,777	1,777
841	Wood, A. D. & Co.....	1,671	1,374	1,374	1,374	1,671	1,671	1,671	1,671
547	Wagner, D. & Co.....	1,144	1,381	1,381	1,249	1,503	1,503	1,503	1,503
1,000	Walker, W.....	1,432	1,197	1,197	1,197	1,432	1,432	1,432	1,432



## BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 274.					No. 275.					No. 276.					No. 1.—277.					No. 2.—277.					No. 278.				
		\$1,597					\$1,280					\$1,597					\$1,597					\$1,597					\$1,597				
	Engineer's estimate,.....																														
776	Brintnall, H. & Co.,.....	1,639					1,367					2,055					1,536					1,536					1,536				
1,042	Burchard, B. & Co.,.....	1,531					1,264					1,916					1,531					1,531					1,531				
315	Butler, O. Jr. & Co.,.....	1,453					1,109					1,825					1,453					1,453					1,453				
597	Bell, J. L.,.....	1,495					1,263					1,927					1,515					1,525					1,525				
519	Clark, J. L. & Co.,.....	1,286					1,070					1,612					1,316					1,286					1,287				
650 a 651	Cady, H. & Co.,.....	1,942					1,623					2,365					2,365					2,365					2,365				
909	Colt, H. V.,.....	1,772					1,482					2,224					1,772					1,772					1,772				
322	Chamberlain & Bradley,.....	1,319					1,087					1,643					1,319					1,319					1,319				
869	Candee, W. & Co.,.....	1,604					1,346					2,138					1,604					1,604					1,604				
798	Church, R.,.....	1,631					1,359					2,051					1,631					1,631					1,631				
4	Charlick, O.,.....	1,975					1,655					2,490					1,975					1,975					1,975				
218	Curtiss, D. F.,.....	1,536					1,269					1,923					1,536					1,536					1,536				
943	Chase, L.,.....	1,502					.....					1,889					1,502					1,502					1,502				
306	Ennis, W. H. & Co.,.....	1,511					1,250					1,931					1,614					1,614					1,614				
409	Ellicott, J. & Co.,.....	1,621					1,344					2,014					1,621					1,621					1,621				
453	Field, F. & Co.,.....	1,540					1,287					1,901					1,540					1,540					1,540				
602	Hardy, J.,.....	1,463					1,261					1,908					1,515					1,515					1,520				
968	Hall, I.,.....	1,242					1,042					1,568					1,242					1,242					1,242				
279	Hinds, F. & Co.,.....	1,732					1,431					2,153					1,732					1,732					1,732				
212	Hughes, J. B.,.....	1,507					1,245					1,888					1,507					1,507					1,507				
924	Hunt, S. J.,.....	1,265					1,050					1,591					1,265					1,265					1,265				



## BRIDGE ABUTMENTS—From Section 279 to 286.

No. of proposition.	NAMES OF BIDDERS.	No. 279.	No. 280.	No. 1—281.	No. 2—281.	No. 282.	No. 286.
		\$1,597	\$1,597	\$1,597	\$1,597	\$1,280	\$1,597
762	Brintnall, H. & Co.	1,536	1,536	1,536	1,536	1,279	1,536
1,042	Burchard, B. & Co.	1,531	1,531	1,531	1,531	1,264	1,531
315	Rutler, O. jun. & Co.	1,453	1,453	1,510	1,510	1,258	2,510
651	Cady, H. & Co.	2,365	2,365	2,365	2,365	1,572	2,365
50	Colton, J. C. & Co.	.....	.....	1,780	1,779	1,493	1,779
909	Colt, H. V.	1,772	1,772	1,772	1,772	1,482	1,772
322	Chamberlain & Bradley	1,319	1,319	1,319	1,319	1,087	1,319
869	Candee, W. & Co.	1,604	1,604	1,604	1,604	1,346	1,604
798	Church, R.	1,631	1,631	1,631	1,631	1,359	1,631
943	Chase, L.	1,502	1,502	1,613	1,502	1,347	1,502
4	Charlick, O.	1,975	1,975	1,975	1,975	1,655	1,975
213	Curtiss, D. F.	1,536	1,536	1,536	1,536	1,269	1,536
24	Clark, O.	.....	.....	.....	.....	.....	1,850
306	Ennis, W. H. & Co.	1,614	1,511	1,511	1,511	1,250	1,511
409	Ellicott, J. & Co.	1,621	1,621	1,621	1,621	1,344	1,621
403	Field, F. & Co.	1,540	1,540	1,540	1,540	1,287	1,540
968	Hall, I.	1,242	1,242	1,242	1,242	1,042	1,242
279	Hinds, F. & Co.	1,782	1,732	1,732	1,732	1,431	1,732
242	Hughes, J. B.	1,507	1,507	1,507	1,507	1,245	1,507
924	Hunt, S. J.	1,205	1,205	.....	.....	.....	.....
536	Hard, G.	.....	.....	.....	.....	.....	1,373

658	Holden, S. C.	1,682	1,682	1,682	1,682	1,682	1,448	1,493
150	Jackson, J. & Co.	2,012	2,012	2,012	2,012	2,012	1,702	1,682
1,015	Learned, E. & Co.	1,861	1,861	1,861	1,861	1,861	1,547	2,012
892	Lee, J. B. & Co.	1,547	1,547	1,547	1,547	1,547	1,431	1,861
710	Lewis, L. & Co.	1,624	1,624	1,624	1,624	1,624	1,286	1,720
1,154	Mills, H. P. & Co.	1,624	1,624	1,624	1,624	1,624	1,324	1,547
348	Millner, J. P. & Co.	1,681	1,681	1,681	1,681	1,681	1,387	1,596
1,068	Nichols, J. H.	1,220	1,220	1,220	1,220	1,220	1,009	1,387
573	Peck, L. J.	1,624	1,624	1,624	1,624	1,624	1,350	1,220
88	Phillips, L. & Co.	1,507	1,507	1,507	1,507	1,507	1,243	1,316
1,123	Ross, M. L.	1,835	1,835	1,835	1,835	1,835	1,538	1,507
588	Ryan, J. & Co.	1,522	1,522	1,522	1,522	1,522	1,260	1,846
356	Reed, E. S.	1,667	1,667	1,667	1,667	1,667	1,386	1,835
991	Spencer, J. O.	1,449	1,449	1,449	1,449	1,449	1,257	1,522
1,168	Severance, H. M.	1,841	1,841	1,841	1,841	1,841	1,544	1,667
1,007	Smith, P. & Co.	1,574	1,574	1,574	1,574	1,574	1,320	1,500
604	Thompson, J. R.	1,759	1,759	1,759	1,759	1,759	1,463	1,751
75	Turner, O.	1,777	1,777	1,777	1,777	1,777	1,486	1,631
570	Thompson, C. B.	1,671	1,671	1,671	1,671	1,671	1,374	1,759
1,197	Williams, G. & Co.	1,503	1,503	1,503	1,503	1,503	1,249	1,777
1,118	Wright, J. T. & Co.	1,432	1,432	1,432	1,432	1,432	1,197	1,671
841	Wood, A. D. & Co.	1,284	1,284	1,284	1,284	1,284	1,066	1,503
547	Wagner, D. & Co.	1,624	1,624	1,624	1,624	1,624	1,350	1,432
1,000	Walker, W.	1,507	1,507	1,507	1,507	1,507	1,243	1,284
222	Wilder, A.	1,835	1,835	1,835	1,835	1,835	1,538	1,507







## BRIDGE ABUTMENTS—From Section 293 to 298.

No. of propositions.	NAMES OF BIDDERS.	No. 298.	No. 1—294.	No. 2—294.	No. 294.	No. 297.	No. 298.
	Engineers' estimate,.....	\$1,280	\$1,597	\$1,597	\$1,597	\$1,280	\$1,280
78	Burrill, T.....	1,449	1,720	1,720	1,720	1,423	1,437
1,042	Burchard, B. & Co.....	1,264	1,531	1,531	1,531	1,264	1,264
315	Butler & Stanbrough.....	1,346	1,561	1,561	1,561	1,346	1,346
50	Colton, J. C. & Co.....	1,493	1,779	1,779	1,779	1,493	1,493
798	Church, R.....	1,271	1,528	1,528	1,528	1,271	1,271
651	Cady & Butler.....	1,572	1,883	1,883	1,779	1,572	1,572
322	Chamberlain & Bradley.....	1,086	1,319	1,319	1,319	1,086	1,086
943	Chase, L.....	1,347	1,610	1,610	1,613	1,347	1,347
869	Candee, Reed & Co.....	1,344	1,649	1,649	1,649	1,344	1,344
909	Colt, H. V.....	1,481	1,772	1,772	1,772	1,481	1,481
581	Chamberlain & Edgerton.....	1,103	1,546	1,546	1,346	1,103	1,103
4	Charlick, O.....	1,655	1,975	1,975	1,975	1,665	1,665
306	Ennis, W. H.....	1,317	1,589	1,589	1,614	1,338	1,338
409	Ellicott, J.....	1,300	1,569	1,569	1,569	1,300	1,300
453	Field & Munger.....	1,286	1,540	1,540	1,540	1,286	1,286
47	Grant, L. A. G. B.....	1,452	1,744	1,744	1,744	1,452	1,452
174	Hard, G. & Co.....	1,964	2,343	2,343	2,137	1,785	1,612
1,113	Harrington, M. A.....	1,142	1,383	1,383	1,383	1,142	1,142
279	Hinds & Copeland.....	1,343	1,579	1,579	1,579	1,343	1,343
242	Hughes, J. B.....	1,269	1,507	1,507	1,649	1,269	1,313
150	Jackson, J. & Co.....	1,404	1,681	1,681	1,681	1,404	1,404



## BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 293.	No. 1-294.	No. 2-294.	No. 296.	No. 297.	No. 298.
	Engineers' estimate,.....	\$1,280	\$1,597	\$1,597	\$1,597	\$1,280	\$1,280
479	King, J. B. & Co.....	1,357	1,576	1,576	1,576	1,357	1,313
1,015	Learned, E. & Co.....	1,702	.....	2,012	2,012	1,702	1,702
892	Lee, Britton & Co.....	1,539	1,881	1,881	1,861	1,539	1,539
1,154	Mills & Harwood.....	1,286	1,547	1,547	1,547	1,286	1,286
1,197	Moore & Williams.....	1,463	1,759	1,759	1,759	1,463	1,463
1,069	Nichols, J. H.....	1,385	.....	1,385	1,681	1,387	1,387
573	Peck, L. J.....	1,009	1,220	1,220	1,220	1,009	1,009
531	Pringle, B.....	1,280	.....	.....	.....	.....	.....
356	Reed, E. S.....	1,450	1,743	1,743	1,743	1,450	1,450
588	Ryan & Swan.....	1,243	1,507	1,507	1,507	1,243	1,243
696	Sawyer, J.....	1,312	.....	1,312	1,576	1,312	1,312
1,007	Smith, Moore & Co.....	1,520	1,513	1,513	1,667	1,520	1,520
661	Soper & Field.....	1,231	1,484	1,484	1,777	1,239	1,239
991	Spencer, J. O.....	1,533	1,835	1,835	1,835	1,533	1,533
1,168	Severance, H. M.....	1,260	1,542	1,542	1,522	1,260	1,260
75	Turner, Otis.....	1,464	1,750	1,750	1,750	1,464	1,464
1,000	Walker, W.....	1,197	1,432	1,432	1,432	1,197	1,197
1,118	Wright, J. T. & Co.....	1,480	1,777	1,777	1,777	1,480	1,480
841	Wood & Clark.....	1,371	1,646	1,646	1,646	1,371	1,371
547	Wagner & Levings.....	1,254	1,503	1,503	2,518	1,254	1,254

## BRIDGE ABUTMENTS.—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 300.—1.	No. 300.—2.	No. 302.	No. 303.	No. 304.	No. 305.
		\$1,597	\$1,597	\$1,597	\$1,597	\$1,597	\$1,597
78	Burrill, T., .....	1,720	1,715	1,663	1,638	1,607	1,547
1,042	Burchard, B. & Co., .....	1,531	1,531	1,531	1,531	1,531	1,531
315	Butler & Stanbrough, .....	1,561	1,561	1,561	1,561	1,561	1,561
353	Brown, G., .....	.....	.....	.....	.....	.....	1,915.
24	Clark, O., .....	.....	.....	.....	.....	.....	1,850
50	Colton, J. C. & Co., .....	1,779	1,779	1,779	1,779	1,779	1,779
798	Church, R., .....	1,528	1,528	1,528	1,528	1,528	1,528
651	Cady & Butler, .....	1,572	1,572	1,572	1,572	1,572	1,572
332	Chamberlain & Bradley, .....	1,319	1,319	1,319	1,319	1,319	1,319
943	Chase, L., .....	1,613	1,613	1,613	1,613	1,613	1,613
869	Candee, Reed & Co., .....	1,649	1,649	1,649	1,649	1,649	1,649
909	Colt, H. V., .....	1,772	1,772	1,772	1,772	1,772	1,772
581	Chamberlain & Edgerton, .....	1,346	1,346	1,346	1,346	1,346	1,346
4	Charlick, O., .....	1,975	1,975	1,975	1,975	1,975	1,975
140	Collins, A., .....	1,912	1,912	1,912	1,912	1,912	1,912
409	Ellicott, J. & Co., .....	1,569	1,569	1,569	1,569	1,569	1,569
453	Field & Munger, .....	1,540	1,540	1,540	1,540	1,540	1,540
47	Grant, L. A. G. B., .....	1,744	1,744	1,744	1,744	1,744	1,744
174	Hard, G., .....	2,142	2,142	1,931	1,931	2,343	2,343
1,113	Harrington, M. A., .....	1,383	1,383	1,383	1,383	1,383	1,383



1,000	Walker, W., .....	1,432	1,432	1,432	1,432	1,432	1,432
1,118	Wright, J. T. & Co., .....	1,777	1,777	1,777	1,777	1,777	1,777
841	Wood & Clark, .....	1,646	1,646	1,646	1,646	1,646	1,646
547	Wagner & Levings, .....	1,525	1,525	1,525	1,525	1,525	1,525

## BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Section 308.	Section 309.	Section 311.	Farm, Section 312.	Section 313.	
						No. 1.	No. 2.
	Engineers' estimate, .....	\$1,280	\$1,597	\$1,597	\$1,280	\$1,597	\$1,280
78	Burrill, T., .....	1,392	1,650	1,603	1,351	1,603	1,351
1,042	Burchard, B., .....	1,264	1,531	1,531	1,264	1,531	1,264
353	Brown, G., .....	.....	.....	.....	1,600	.....	.....
315	Butler & Stanbrough, .....	1,346	1,561	1,561	1,346	1,561	1,346
140	Collins, A., .....	1,608	1,912	1,912	1,608	1,912	1,608
150	Colton, I. C., .....	1,493	1,779	1,779	1,493	1,779	1,493
798	Church, R., .....	1,271	1,528	1,528	1,271	1,528	1,271
24	Clark, O., .....	.....	.....	1,850	1,271	1,850	1,271
651	Cady & Butler, .....	1,572	1,883	1,883	1,271	1,779	1,271
322	Chamberlain & Bradley, .....	1,086	1,319	1,319	1,086	1,319	1,086
943	Chase, L., .....	1,347	1,613	1,613	1,347	1,613	1,347
869	Candee, Reed & Co., .....	1,344	1,649	1,649	1,344	1,649	1,344
909	Colt, H. V., .....	1,481	1,772	1,772	1,482	1,772	1,481
581	Chamberlain & Edgerton, .....	1,103	1,346	1,346	1,103	1,346	1,103
4	Charlick, O., .....	1,655	1,975	1,975	1,655	1,975	1,655
622	Daniels, C. A., .....	1,079	1,302	.....	.....	1,306	986
409	Ellicott, J. & Co., .....	1,300	1,569	1,569	1,300	1,569	1,300
453	Field & Munger, .....	1,286	1,540	1,540	1,286	1,540	1,286
47	Grant, L. A. G. B., .....	1,452	1,744	1,744	1,452	1,744	1,452
389	Hopkins & Weeks, .....	.....	.....	1,841	.....	.....	.....

536	Hard, G., .....	1, 183	1, 428	.....	.....	.....	.....	.....	.....
1, 113	Harrington, M. A., .....	1, 142	1, 383	.....	1, 383	1, 142	.....	1, 383	1, 142
279	Hinds & Copeland, .....	.....	.....	.....	1, 579	1, 343	.....	.....	.....
242	Hughes, J. B., .....	1, 269	1, 586	.....	1, 586	1, 507	.....	1, 586	1, 507
692	Hart, I. N., .....	1, 707	2, 009	.....	.....	.....	.....	.....	.....
414	Hilton, J. M. K., .....	.....	.....	.....	1, 401	1, 169	.....	.....	.....
71	Jackson, J. Jr., .....	1, 354	1, 655	.....	1, 655	1, 354	.....	1, 655	1, 354
150	Jackson, J. & Co., .....	1, 404	1, 681	.....	1, 681	1, 404	.....	1, 681	1, 404
479	King, J. B., .....	.....	.....	.....	1, 627	.....	.....	.....	.....
564	Kneeland, S. W., .....	.....	.....	.....	1, 302	1, 079	.....	1, 302	1, 079
1, 015	Learned, E. & Co., .....	1, 702	2, 012	.....	2, 012	1, 702	.....	2, 012	1, 702
892	Lee, Britton & Co., .....	1, 539	1, 861	.....	1, 861	1, 539	.....	1, 861	1, 539
1, 154	Mills & Harwood, .....	1, 286	1, 547	.....	1, 547	1, 286	.....	1, 549	1, 286
1, 197	Moore & Williams, .....	1, 463	1, 759	.....	1, 759	1, 463	.....	1, 759	1, 463
1, 069	Nichols, J. H., .....	1, 387	1, 681	.....	1, 681	1, 387	.....	1, 681	1, 387
573	Peck, L. J., .....	1, 009	1, 220	.....	1, 220	1, 009	.....	1, 220	1, 009
88	Phillips, L. H., .....	.....	.....	.....	1, 373	1, 136	.....	.....	.....
531	Pringle, B., .....	1, 280	1, 537	.....	1, 537	1, 280	.....	1, 537	1, 280
588	Ryan & Swan, .....	1, 243	1, 507	.....	1, 507	1, 243	.....	1, 507	1, 243
356	Reed, E. S., .....	1, 450	1, 743	.....	.....	.....	.....	.....	.....
1, 007	Smith, Moore & Co., .....	1, 520	1, 513	.....	1, 513	1, 520	.....	1, 513	1, 520
991	Spencer, J. O., .....	1, 533	1, 835	.....	1, 835	1, 533	.....	1, 835	1, 533
1, 168	Severance, H. M., .....	1, 260	1, 522	.....	1, 522	1, 260	.....	1, 522	1, 260
75	Turner, Otis, .....	1, 464	1, 750	.....	1, 750	1, 464	.....	1, 750	1, 464
620	Tonsley, Field & Co., .....	1, 279	1, 543	.....	1, 543	1, 275	.....	1, 539	1, 275
1, 000	Walker, W., .....	1, 197	1, 432	.....	1, 432	1, 197	.....	1, 432	1, 197

## BRIDGE ABUTMENTS—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	Section 308.	Section 309.	Section 311.	Section 312.	Section 313.	
						No. 1.	No. 2.
	Engineers' estimate,.....	\$1,280	\$1,597	\$1,597	\$1,280	\$1,597	\$1,280
1,118	Wright, J. T. & Co.,.....	1,480	1,777	1,302	1,480	1,777	1,480
841	Wood & Clark,.....	1,371	1,646	1,646	1,371	1,646	1,371
547	Wagner & Levings, .....	1,254	1,503	1,503	1,254	1,525	1,503

## BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	EXTENSION.			OLD LINE AT HOLLEY.		
		Section 314.	Section 289.	Section 290.	Section 291.	Section 291.	Section 291.
	Engineers' estimate, .....	\$2,572	\$1,597	\$1,597	\$1,597	\$1,597	\$1,597
1,042	Burchard, B. & Co., .....	2,545	.....	.....	.....	.....	.....
315	Butler & Stanbrough, .....	2,661	1,556	1,556	1,556	1,510	.....
762	Brintnall, H. & Co., .....	.....	1,536	1,536	1,536	.....	.....
78	Burrill, T., .....	2,598	1,659	1,715	1,715	1,732	.....
50	Colton, I. C., .....	2,836	1,779	1,779	1,779	1,779	.....
798	Church, R., .....	2,539	.....	.....	.....	.....	.....
651	Cady & Butler, .....	3,120	.....	.....	.....	.....	.....
322	Chamberlain & Bradley, .....	2,192	.....	.....	.....	.....	.....
943	Chase, L., .....	2,682	.....	.....	.....	.....	.....
869	Candee, Reed & Co., .....	2,689	.....	.....	.....	1,604	.....
909	Colt, H. V., .....	2,927	.....	.....	.....	.....	.....
581	Chamberlain & Edgerton, .....	2,235	.....	.....	.....	.....	.....
4	Charlick, O., .....	3,276	1,975	1,975	1,975	1,975	.....
24	Clark, O., .....	3,057	.....	.....	.....	.....	.....
140	Collins, A., .....	2,169	.....	.....	.....	.....	.....
610	Danolds, C. A., .....	2,131	.....	.....	.....	.....	.....
409	Ellicott, J., .....	2,591	.....	.....	.....	.....	.....
453	Field & Munger, .....	2,412	.....	.....	.....	.....	.....
47	Grant, L. A. G. B., .....	2,871	.....	.....	.....	.....	.....
174	Hard, G. & Co., .....	.....	1,931	1,931	1,931	1,931	.....
1,113	Harrington, M. A., .....	2,291	.....	.....	.....	.....	.....



## BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	OLD LINE AT HOLLEY.			
		EXTENSION. Section 314.	Section 280.	Section 290.	Section 291.
	Engineers' estimate,.....	\$2,572	\$1,597	\$1,597	\$1,597
279	Hinds & Copeland,.....	2,686	.....	.....	.....
242	Hughes, J. B.,.....	2,649	.....	.....	.....
389	Hopkins & Weeks,.....	3,033	.....	.....	.....
810	Hewes, H. N.,.....	2,475	.....	.....	.....
71	Jackson, J. Jr., & Co.,.....	2,664	.....	.....	.....
150	Jackson, J. & Co.,.....	2,745	1,732	1,732	1,732
479	King, J. B. & Co.,.....	2,729	1,576	1,627	1,627
564	Kneeland, S. W.,.....	2,162	.....	.....	.....
1,015	Learned, E. & Co.,.....	3,162	.....	.....	.....
892	Lee, J. B. & Co.,.....	3,081	.....	.....	.....
1,154	Mills & Harwood,.....	2,580	1,547	1,547	1,547
1,197	Moore & Williams,.....	2,926	.....	.....	.....
1,069	Nichols, J. H.,.....	2,734	2,707	2,707	1,681
573	Peck, L. J.,.....	2,044	.....	.....	.....
88	Phillips, L. H.,.....	1,256	1,604	1,604	.....
531	Pringle, B.,.....	2,535	1,743	1,743	.....
356	Reed, E. S.,.....	.....	.....	.....	.....
588	Ryan & Swan,.....	2,484	.....	.....	1,743
1,007	Smith, Moore & Co.,.....	2,513	.....	.....	.....
991	Spencer, J. O.,.....	2,057	1,835	1,835	1,835
1,168	Severance, H. M.,.....	2,544	.....	.....	.....

75	Turner, Otis, .....	2,875	.....	.....	.....
620	Tousley, Field & Co., .....	2,558	.....	.....	.....
1,000	Walker, W., .....	2,630	.....	.....	.....
1,118	Wright, J. T., .....	2,939	.....	.....	.....
841	Wood & Clark, .....	2,684	.....	.....	.....
547	Wagner & Levings, .....	2,518	.....	.....	.....

## BIDS ON BRIDGE SUPERSTRUCTURES,

On sections from 207 to 315, inclusive. Cost of single track road bridge, on plans 1, 2, 3, 4, 5.

NAMES OF PROPOSERS.	Plan No. 1, with exten's'n Stillson's.	Plan No. 1, without ext'n Stillson's.	Plan No. 2, Marsh's.	Plan No. 3, Beach's.	Plan No. 4, Whipple's.	Plan No. 5, Cov. bridge.
Squire Whipple,	.....	.....	.....	2,732	.....	.....
S. B. Randall,	965	2,298	.....	.....	.....	.....
Burchard, Bixby & Co.,	1,351	2,472	.....	.....	.....	2,727
Briggs & Jones,	1,330	2,431	1,955	.....	.....	.....
N. Osburn,	1,164	2,431	.....	.....	.....	2,663
A. M. Robinson,	956	2,285	.....	.....	.....	.....
Isaac Hall,	1,004	2,168	1,643	2,744	.....	2,528
Otis Turner,	1,371	2,555	.....	.....	.....	2,748
M. A. Harrington,	1,048	2,265	1,921	.....	.....	2,281
Samuel J. Hunt,	1,081	2,389	.....	.....	.....	2,451
Chase & McGlachlin,	1,089	2,265	1,593	.....	.....	.....
L. A. G. B. Grant,	1,330	2,514	.....	.....	.....	2,791
Ennis & Morgan,	1,160	2,298	1,807	2,830	2,552	2,469
E. B. Smith & Co.,	1,330	2,514	2,287	.....	.....	2,706
Erastus Corning & Co.,	.....	.....	1,989	3,046	3,216	.....
J. R. Clarke,	.....	.....	1,872	.....	.....	2,536
A. B. Williams,	.....	2,408	2,162	3,088	.....	2,493
J. N. Nelson,	.....	.....	.....	2,621	.....	2,451

M. O. Storey,.....	.....	.....	.....	.....	.....	.....	.....	.....	2,706
Reuben Cummings, .....	.....	.....	.....	.....	.....	.....	.....	.....	2,489
Ennis, Randall & Co., .....	.....	.....	.....	.....	.....	.....	.....	.....	2,408
Briggs & Hall,.....	1,234	2,431	.....	.....	.....	.....	.....	.....	.....
Estimated cost of abutments at average price of bids, ..	3334	\$1,601	\$461	1,601	\$1,601	\$1,601	\$1,601	\$1,601	\$1,601
Engineers' estimates,.....	\$1,052	\$1,914	\$1,883	\$2,878	.....	.....	.....	.....	.....

[Assembly, No. 90.]

# **BRIDGE SUPERSTRUCTURES—(CONTINUED.)**

*Cost of Church-street Bridge, Lyons, including Superstructure, Masonry, &c., on Plans 1, 2, 3, 4, and 5.*

NAMES OF PROPOSERS.	Plan No. 1.		Plan No. 2.	Plan No. 3.	Plan No. 4.	Plan No. 5.
	extension. Stillson's.	no extension. Stillson's.	Marsh's.	Beach's.	Whipple's.	Cov. bridge.
S. B. Randall,	1,575	3,751	.....	.....	.....	.....
Burchard, Bixby & Co.,	1,891	4,067	.....	.....	.....	.....
Briggs & Hall,	1,805	3,981	.....	.....	.....	.....
Briggs & Jones,	1,805	3,981	3,207	.....	.....	.....
N. Osburn,	1,805	3,981	.....	.....	.....	.....
A. M. Robinson,	1,517	3,693	.....	.....	.....	.....
Isaac Hall,	.....	.....	2,782	4,713	4,430	.....
Chase & McGlathlin,	1,483	3,659	2,696	.....	4,211	.....
L. A. G. B. Grant,	1,977	4,153	.....	.....	.....	.....
Ennis & Morgan,	1,627	3,802	3,161	4,195	4,516	.....
E. B. Smith & Co.,	1,917	4,096	4,012	5,591	5,476	.....
Erastus Corning,	.....	.....	3,513	5,398	5,887	.....
J. M. Nelson,	.....	.....	.....	.....	4,153	.....
Estimated cost of abutments at average price of bids,...	\$425	\$2,601	\$562	\$2,601	\$2,601	\$2,601
Engineers' estimates,.....	\$1,334	\$3,510	\$2,915	.....	.....	.....

# BRIDGE SUPERSTRUCTURES—(CONTINUED.)

## ROAD BRIDGE.

*Comparative cost of a single track, with sidewalks, 17 feet wide and 80 feet span.*

NAMES OF PROPOSERS.	Plan No. 1.	Plan No. 2.	Plan No. 3.	Plan No. 4.	Hudnuth's.	Stanley's.	J. C. Eymour
	Stillson's.	Marsh's.	Beach's.	Whipple's.			
S. B. Randall, .....	850	.....	.....	.....	.....	.....	.....
Burchard, Bixby & Co., .....	1,058	.....	.....	.....	.....	.....	.....
Briggs & Hall, .....	996	.....	.....	.....	.....	.....	.....
Briggs & Jones, .....	996	1,908	.....	1,870	.....	.....	.....
N. Osburn, .....	996	.....	.....	.....	.....	.....	.....
Benj. Pringle, .....	1,027	.....	.....	.....	.....	.....	.....
A. M. Robinson, .....	7,888	.....	.....	.....	.....	.....	.....
Isaac Hall, .....	695	1,601	1,561	1,352	.....	.....	.....
A. B. Williams, .....	954	2,241	1,976	1,785	.....	.....	.....
Otis Turner, .....	1,079	.....	.....	.....	.....	.....	.....
M. A. Harrington, .....	796	.....	.....	1,681	.....	.....	.....
Samuel I. Hunt, .....	913	.....	.....	.....	.....	.....	.....
Chase & McGlachlin, .....	763	1,539	.....	1,190	.....	.....	.....
I. W. Goodrich, .....	850	.....	.....	.....	.....	.....	.....
L. A. G. B. Grant, .....	1,037	.....	.....	.....	.....	.....	.....
Erastus Corning, & Co., .....	.....	2,129	2,067	2,429	.....	.....	.....
J. M. Nelson, .....	.....	.....	.....	1,147	.....	.....	.....
S. Whipple, .....	.....	.....	.....	1,920	.....	.....	.....

## BRIDGE SUPERSTRUCTURES—(Continued.)

NAMES OF PROPOSERS.	Plan No. 1.	Plan No. 2.	Plan No. 3.	Plan No. 4.	Stanley's.	J. C. Seymour
	Stillborn's.	Marble's.	Beach's.	Whipple's.	Hudnuth's.	
J. R. Clarke, .....	.....	2,033	.....	.....	.....	.....
Ennis & Morgan, .....	.....	1,875	1,769	.....	.....	.....
Chase & Hudnuth, .....	.....	.....	.....	.....	1,120	.....
E. L. Stanley, ....	.....	.....	.....	.....	.....	.....
J. C. Seymour, .....	.....	.....	.....	.....	1,475	.....
Engineers' estimates, .....	\$827	\$1,844	\$1,641	\$1,392	.....	1,275

## COMPARATIVE COST

*Of a single Track Road Bridge, seventeen feet wide and eighty feet span.*

NAMES OF BIDDERS.	Plan No. 1. extension. Stilts &c.	Plan No. 2. Marsh's.	Plan No. 3. Beach's.	Plan No. 4. Whipple's.	Plan No. 5. Cov'd bridge.	Corning's plan.
Erastus Corning,	.....	1,528	1,445	1,615	.....	821
S. B. Randall,	630	.....	.....	.....	.....	.....
Burchard, Bixby & Co.,	1,016	.....	.....	.....	.....	.....
Briggs & Hall,	900	.....	.....	.....	1,126	.....
W. P. Danolds,	1,079	.....	.....	.....	.....	.....
Briggs & Jones,	996	1,494	.....	.....	.....	.....
N. Osburn,	830	.....	.....	.....	1,062	.....
B. Pringle,	1,016	.....	.....	.....	.....	.....
A. M. Robinson,	622	.....	1,143	.....	.....	.....
Isaac Hall,	669	1,182	.....	.....	927	.....
Otis Turner,	1,037	.....	.....	.....	1,147	.....
M. A. Harrington,	713	.....	.....	.....	680	.....
S. I. Hunt,	747	.....	.....	.....	850	.....
Chase & McGlaehlin,	755	1,132	.....	.....	.....	.....
Green & Boyce,	873	.....	.....	.....	.....	.....
J. W. Goodrich,	879	.....	.....	.....	.....	.....
L. A. G. B. Grant,	996	.....	.....	.....	1,105	.....
J. M. Pickett,	795	.....	.....	.....	.....	.....
Ennis & Morgan,	826	1,875	1,229	951	868	.....
E. B. Smith & Co.,	996	1,826	.....	.....	1,105	.....
J. R. Clarke,	.....	1,411	.....	.....	935	.....



**COMPARATIVE COST**  
*Of a Singe Track Road Bridge, seventeen feet wide and eighty feet span.*

NAMES OF BIDDERS.	Plan No. 1.	Plan No. 2.	Plan No. 3.	Plan No. 4.	Plan No. 5.	Plan No. 6.
	Extension. Stillson's.	Marsh's.	Beach's.	Whipple's.	Cov'd bridge.	
A. B. Williams, .....	.....	1,701	1,487	.....	892	.....
J. M. Nelson, .....	.....	.....	1,020	.....	850	.....
M. C. Story, .....	.....	.....	.....	.....	1,105	.....
Reuben Cummins, .....	.....	.....	.....	.....	888	.....
Ennis, Randall & Co., .....	.....	.....	.....	.....	807	.....
Orville Clarke, .....	.....	.....	.....	.....	935	.....
Engineers' estimate, .....	\$681	\$1,342	\$1,150			

**COMPARATIVE COST**  
*Of a Road Bridge, single track, seventeen feet wide and eighty feet span.*

NAMES OF BIDDERS.		Hildreth's plan.	Stanley's plan.	J. C. Seymour plan.	J. Ingraham's plan.	Chase & Hud- nuth plan.
G. W. Hildreth,.....		1,530	.....	.....	.....	.....
E. L. Stanley,.....		.....	1,200	.....	.....	.....
J. C. Guernsey,.....		.....	.....	994	.....	.....
Chase & Hudnuth,.....		.....	.....	.....	.....	981
J. Ingraham,.....		.....	.....	.....	1,320	.....

## COMPARATIVE COST

*Of a Singe Track Road Bridge, seventeen feet wide and eighty feet span.*

JAMES OF BIDDERS.	Plan No. 1. Extension, Stillson's.	Plan No. 2. Marah's.	Plan No. 3. Bench's.	Plan No. 4. Whipple's.	Plan No. 5. Cor'd bridge,	Plan No. 6.
.....	.....	1,701	1,487	.....	892	.....
.....	.....	.....	1,020	.....	850	.....
.....	.....	.....	.....	.....	1,105	.....
.....	.....	.....	.....	.....	888	.....
.....	.....	.....	.....	.....	807	.....
.....	.....	.....	.....	.....	935	.....
.....	.....	\$1,342	.....	.....	.....	.....
.....	\$681	.....	\$1,150	.....	.....	.....

## COMPARATIVE COST

Road Bridge, single track, seventeen feet wide and eighty feet span.

IES UP BIDDERS.	Hildreth's. plan.	Stanley's plan.	J. C. Seymour plan.	J. Ingraham's plan.	Chase & Hud- nuth plan.
1,530	1,530	1,200	994	1,820	981

3.

# I.I.

# III

305

I, 167 H.

# PLAN No. 1--(STILLSON'S)-- BRIDGE SUPERSTRUCTURES.

No of proposition.	NAMES OF BIDDERS.	Road Bridge, sin- gle track, with span 83 feet.						Road Bridge, sin- gle track, with extension, span 94 feet, sec. 219		Road Bridge, sin- gle track, span 83 feet.		Road Bridge, sin- gle track, sec. 219, span 94 ft.		Farm Bridge, sin- gle track, span 83 feet.		Road Bridge, dou- ble track, span 83 feet.	
		Road Bridge, sin- gle track, with span 83 feet.	Road Bridge, sin- gle track, with extension, span 94 feet.	Road Bridge, sin- gle track, with extension, span 94 feet.	Road Bridge, sin- gle track, with extension, span 94 feet.	Road Bridge, sin- gle track, with extension, span 94 feet.	Road Bridge, sin- gle track, with extension, span 94 feet.	Road Bridge, sin- gle track, with extension, span 94 feet.	Road Bridge, sin- gle track, with extension, span 94 feet.	Road Bridge, sin- gle track, span 83 feet.	Road Bridge, sin- gle track, span 83 feet.	Road Bridge, sin- gle track, sec. 219, span 94 ft.	Road Bridge, sin- gle track, span 83 feet.	Road Bridge, sin- gle track, span 83 feet.	Road Bridge, sin- gle track, span 83 feet.	Road Bridge, sin- gle track, span 83 feet.	Road Bridge, sin- gle track, span 83 feet.
673	Akenhead & Cole, sec. 218.	.....	.....	.....	.....	.....	.....	.....	.....	2,869	2,869	.....	.....	.....	.....	.....	.....
"	" " 219.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3,431	.....	.....	.....	.....	.....
"	" " 228.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
63	Michael Brock, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1,044	Burchard, Bixby & Co., (eastern sub-division), .....	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203
485	Allen L. Burn & Co., from 246 to 260 inc., .....	1,058	1,058	1,058	1,058	1,058	1,058	1,058	1,058	1,058	1,058	1,058	1,058	1,058	1,058	1,058	1,058
142	Briggs & Hall, from 207 to 314 inc., .....	1,618	1,618	1,618	1,618	1,618	1,618	1,618	1,618	1,618	1,618	1,618	1,618	1,618	1,618	1,618	1,618
630	Briggs & Jones, from 207 to 314 inc., .....	996	996	996	996	996	996	996	996	996	996	996	996	996	996	996	996
1,082	S. W. Barnes, from 207 to 314 inc., .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
280	R. Cummins, from 207 to 314 inc., .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
797	R. Church, *from 207 to 315, both inclusive, .....	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494
938	Chase & McGlachlin, from 219 to 314 inc., .....	763	763	763	763	763	763	763	763	763	763	763	763	763	763	763	763
21	Orville Clark, on sec. 208, 286, 287, 305, 311, 312, 313 and 314, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
607	W. C. Danolds, from 266 to 314 inc., .....	1,224	1,224	1,224	1,224	1,224	1,224	1,224	1,224	1,224	1,224	1,224	1,224	1,224	1,224	1,224	1,224
307	Ennis & Morgan, from 207 to 314 inc., .....	867	867	867	867	867	867	867	867	867	867	867	867	867	867	867	867
423	Ennis R., from 207 to 314 inc., .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Engineer's estimate, .....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

1,135	Green & Boyce, from 239 to 245 inc.,	.....	873	.....	762	.....	597
235	I. W. Goodrich, from 207 to 235 inc.,	850	813	921	664	752	560
48	L. A. G. B. Grant, from 207 to 262 inc.,	1,120	1,079	1,222	996	1,128	871
"	" 266 to 314 inc.,	1,037	996	.....	913	.....	788
1,114	M. A. Harrington, from 219 to 314 inc.,	796	713	.....	664	.....	518
922	S. I. Hunt, from 266 to 280 inc.,	913	747	.....	788	.....	581
921	" 230 to 245 inc.,	913	747	.....	788	.....	581
970	Isaac Hall, from 207 to 315,	695	669	.....	567	.....	457
43	C. Keyes, on sec. 207 to 262,	.....	.....	.....	1,245	1,410	996
450	Martindale and Ferrell, from 207 to 260 inc., and 271, 272 and 273,	.....	.....	.....	830	940	664
64	J. Mirick & Co., from 219 to 241 inc.,	1,411	1,369	1,551	1,328	1,504	996
386	N. Osburn, from 207 to 315 inc.,	996	830	940	830	940	747
987	Philip Palmer, from 237 to 245 inc.,	.....	.....	.....	1,079	.....	664
675	I. N. Pickett, on sec. 218 and 219,	.....	805	.....	797	.....	726
987	P. Palmer & Co., on sec. 243,	.....	.....	.....	996	.....	.....
758	Peterson & Willard, (eastern sub-division),	1,660	1,286	1,457	.....	.....	1,120
530	B. Pringle, on sec. 246, 247, 249, 252, 253, 254, 256, 292, 293, 308, 309, 311, 312, 313, 314,	1,027	1,016	.....	996	.....	850
636	Rogers & Layton, on sec. 209,	.....	.....	.....	830	.....	664
"	" 210,	.....	.....	.....	.....	.....	.....
"	" 212,	.....	.....	.....	913	.....	664
"	" 213, 214, 215,	.....	.....	.....	664	.....	664
1,172	S. B. Randall,	830	630	714	697	789	560
1,111	A. W. Robinson,	788	622	705	684	775	560
403	E. P. Smith & Co.,	1,079	996	1,128	913	1,034	830
1,167	H. M. Severance, from 207 to 315 inc.,	1,660	1,162	1,316	1,162	1,316	996

# PLAN No. 1—(STILLSON'S)—BRIDGE SUPERSTRUCTURES.—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Road bridge, nine gle track with span 83 feet.	Road bridge, nine gle track with extension, span 86 feet.	Road bridge, nine gle track, extension section 219, span 84 feet.	Road bridge, nine gle track, span 83 feet.	Road bridge, nine gle track, span 84 feet.	Road bridge, nine gle track, span 83 feet.	Road bridge, double track, span 83 feet.
792	I. O. Spencer, from 266 to 314,.....	1,079	1,037	.....	1,245	.....	996	.....
77	Otis Turner, from 266 to 314 inc.,.....	977	.....	.....	954	.....	1,220	.....
683	A. B. Williams, from 215 to 229 inc. on all plans,...	977	.....	.....	807	.....	680	.....
"	" .....	954	.....	.....	788	.....	664	.....
854	A. D. Wood, from 207 to 314,.....	1,245	.....	.....	1,079	.....	996	.....
355	Wm. Whiteside, on sec. 212, .....	1,286	1,245	.....	1,203	.....	.....	.....
"	" from 207 to 218 inc.,.....	1,245	1,203	.....	1,162	.....	913	.....
1,122	J. T. Wright & Co., from 207 to 314 inc.,.....	1,660	1,245	1,410	.....	.....	1,079	1,826
1,198	Williams & Moore, from 207 to 315 inc. ....	.....	.....	.....	1,079	1,222	1,996	.....





PLAN No. 1—(STILLSON'S).—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Road bridge, sin- gle track, 2 side- walks, sec. 219, span 103 feet.		Road bridge, sin- gle track, 2 side- walks, sec. 219, span 118 feet.		Road bridge, sin- gle track, 2 side- walks, sec. 219, span 88 feet.		Road bridge, sin- gle track, 2 side- walks, sec. 219, span 88 feet.		Road bridge, dou- ble track, 2 side- walks, sec. 202, span 123 feet.		Road and change bridge, span 83 feet.		Change bridge, span 83 feet.	
		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
636	Rogers & Layton,.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1,172	S. B. Randall, from 207 to 245,.....	1,030	1,150	850	850	880	880	850	850	.....	.....	.....	.....	.....	.....
1,111	A. M. Robinson, from 207 to 315, inclusive,...	978	1,092	807	807	836	836	807	807	.....	.....	.....	.....	.....	.....
403	E. B. Smith & Co.,.....	1,339	1,495	1,105	1,105	1,144	1,144	1,105	1,105	.....	.....	.....	.....	.....	.....
1,167	H. M. Severance, from 207 to 315,.....	2,060	2,300	1,700	1,700	1,760	1,760	1,760	1,760	.....	.....	.....	.....	.....	.....
854	A. D. Wood, from 207 to 315,.....	1,515	1,725	1,275	1,275	1,320	1,320	1,275	1,275	.....	.....	.....	.....	.....	.....
355	Wm. Whiteside, from 207 to 218, inclusive,...	.....	.....	1,275	1,275	1,364	1,364	.....	.....	.....	.....	.....	.....	.....	.....
1,122	J. T. Wright & Co., from 207 to 314,.....	2,060	2,300	1,700	1,700	1,760	1,760	1,700	1,700	.....	.....	.....	.....	.....	.....



PLAN NO. 2, (MARSH'S)—BRIDGE SUPERSTRUCTURES—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Single track 2 sidewalks. Sec- tion 212. Span 85 feet.	Single track, 2 sidewalks. Sec- tion 212. Span 88 feet.	Single track, 2 sidewalks. Sec- tion 231. Span 85 feet.	Double track, 2 sidewalks. Sec- tion 202. Span 125 feet.
630	Briggs & Jones, from 207 to 314, inclusive,.....	1,955	2,024	1,955	4,059
1,205	E. Corning, from 207 to 314, inclusive,.....	2,181	2,258	2,181	.....
926	J. R. Clark, from 207 to 314, inclusive,.....	2,082	2,156	2,082	.....
307	Ennis & Morgan, from 207 to 314, inclusive,.....	1,921	1,988	1,921	.....
970	Isaac Hall, from 207 to 315, inclusive,.....	1,640	1,698	1,640	.....
403	E. B. Smith, Co.,.....	2,550	2,640	2,550	.....



## BRIDGE SUPERSTRUCTURES.

No. of proposition.	NAMES OF BIDDERS.	Farm bridge. Span 85 feet.	Single track, 2 side-walks, section 212. Span 85 feet.	Single track, 2 side-walks, section 212. Span 88 feet.
1,205	Erastus Corning, from 207 to 314, inclusive,.....	807	2,067	2,140
307	Ennis & Morgan, from 207 to 314, inclusive,.....	904	1,769	1,832
970	Isaac Hall,.....	692	1,561	1,616
403	E. P. Smith,.....	1,275	2,210	2,288
683	A. B. Williams,.....	892	.....	.....

## PLAN No. 4.—(WHIPPLE'S)—BRIDGE SUPERSTRUCTURES.

No. of proposal.	NAMES OF BIDDERS.	Double track, two side-walks, span 123 feet.	Single track, two side-walks, span 85 feet.	Farm, span 85 ft.	Single track, span 85 feet.	Single track, extension section 219, span 94 ft.	Single track, two side-walks, span 219, span 103 ft.	Single track, two side-walks, span 219, span 116 ft.
630	Briggs & Jones, from 207 to 314 inclusive,	4,059	1,870	.....	.....	.....	.....	.....
1,205	E. Corning, from 207 to 315 inclusive,	4,305	2,429	966	1,615	1,786	2,943	3,286
938	Chase & McGlachlin,* .....	2,952	1,190	.....	.....	.....	1,442	1,610
307	Ennis & Morgan, from 207 to 314 incl.,	3,504	1,416	.....	951	.....	1,715	1,915
1,114	M. A. Harrington, from 292 to 314, ..	3,851	1,681	1,120	.....	.....	.....	.....
970	Isaac Hall, from 207 to 315, .....	3,234	1,352	1,014	.....	.....	.....	.....
741	J. M. Nelson, .....	3,075	1,147	.....	.....	.....	.....	.....
403	E. B. Smith & Co., .....	3,690	2,125	1,530	.....	.....	1,638	1,829
683	A. B. Williams & Co., from 215 to 229 in.	.....	1,785	1,317	.....	.....	1,390	1,552
	Squire Whipple, .....	.....	Bill No. 4.	Bill No. 6.	.....	.....	2,575	2,875
	do .....	.....	1,920	662	.....	.....	.....	.....
	do .....	.....	Bill No. 3.	.....	Bill No. 5.	.....	.....	.....
	do .....	.....	1,675	.....	1,131	.....	.....	.....

\* From 219 to 314 on all plans inclusive.

PLAN No. 4.—(WHIPPLE'S.)—BRIDGE SUPERSTRUCTURES.—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Single track, two side-walks, span 88 ft. 212.	Single track, two side-walks, span 88 ft. 212.	Single track, two side-walks, span 88 ft. 231.
1,205	E. Corning, from 207 to 315 inclusive,.....	2,429	2,512	2,429
317	Ennis & Morgan, from 207 to 314 inclusive,.....	1,416	1,466	1,416
970	Isaac Hall,.....	1,352	1,400	1,352
741	J. M. Nelson,.....	1,147	1,188	1,147
403	E. B. Smith & Co.,.....	2,125	2,200	2,125

## PLAN NO. 5.—COVERED—BRIDGE SUPERSTRUCTURES.

No. of propos on.	NAMES OF BIDDERS.	Double track, 2 sidewalks. Sec. 263.	Double track.	Single track.	Single track, extension. Sec. 219.	Farm bridge.	Double track, 2 sidewalks.
		Span 123 ft.	Span 85 feet.	Span 85 feet.	Span 94 feet.	Span 85 feet.	Span 85 feet.
1,044	Burchard, Bixby & Co.,.....	.....	.....	1,126	1,245	510	.....
1,082	S. W. Barnes, from sec's 207 to 315 incl.,.....	.....	.....	1,083	1,198	547	.....
1,043	Burchard, Bixby & Co., on Eastern S. D.,.....	.....	.....	1,126	.....	510	.....
21	Orville Clarke, sec's 208, 286, 287, 305, 311, 312, 313, and 314,.....	.....	.....	.....	.....	.....	.....
926	J. R. Clarke, for 207 to 314 incl.,.....	.....	.....	935	.....	595	.....
1,218	H. Chapman, for 10 bridges,.....	.....	.....	935	.....	510	.....
1,211	P. S. Chapman, for 15 bridges,.....	.....	.....	1,190	.....	595	.....
1	Charliff, O., only for br'gs on secs. award'd to him, .....	.....	.....	1,105	.....	573	.....
280	R. Cummins,.....	2,706	1,615	1,275	1,410	850	.....
471	Ennis, Randall & Co., from 235 to 243 incl.,.....	.....	.....	888	982	470	.....
307	Ennis & Morgan, from 207 to 314 incl.,.....	.....	.....	807	.....	488	.....
48	L. A. G. B. Grant, from 207 to 262,.....	.....	.....	868	960	373	.....
48	do do 266 to 314,.....	.....	.....	1,190	.....	850	.....
1,135	Green & Boyce, from 239 to 245 incl.,.....	.....	.....	1,105	.....	765	.....
1,114	M. A. Harrington, from 292 to 314 incl.,.....	.....	.....	.....	425	.....	.....
970	J. Hall, from 207 to 315 incl.,.....	.....	.....	680	752	425	.....
922	L. J. Hunt, from 266 to 280,.....	.....	.....	927	1,025	435	.....
977	Geo. Law, on sec. awarded to him,.....	.....	.....	850	.....	425	.....
741	J. M. Nelson .....	2,706	1,615	1,275	1,410	850	.....
		.....	.....	850	904	.....	.....



# PLAN No. 5—COVERED—BRIDGE SUPERSTRUCTURES.

No. of proprietors.	NAMES OF BUILDERS.	Double track, 2 sidewalks. Sec. 262.	Double track.	Single track.	Single track, extension. Sec. 219.	Farm bridge.	Double track, 2 sidewalks.
		Span 128 ft.	Span 85 feet.	Span 85 feet.	Span 94 feet.	Span 85 feet.	Span 86 feet.
386	N. Osburn, from 207 to 315 incl.,	.....	.....	1,063	1,175	510	.....
403	E. B. Smith & Co.,	.....	.....	1,105	1,222	765	.....
505	M. C. Story,	.....	1,445	1,105	1,222	765	1,700
77	O. Turner, from 266 to 314,	.....	.....	1,147	.....	765	.....
683	A. B. Williams & Co., from 215 to 229 incl.,	.....	.....	892	.....	595	.....

## BRIDGE SUPERSTRUCTURES.

[LOCATION AND KIND OF BRIDGES.	Spans, feet.	Plan of Chase & Hudnutts. Prop. 10.*	Stanley's plan. Prop. 67..	Coring's plan. Prop. 1,205.†	Hildreth's plan. Prop. 711.	Seymour's plan. Prop. 925.‡	Ingraham's plan. Prop. 532.
Single track,.....	83	958	1,200	1,353	.....	994	.....
do extension, sec. 219,.....	94	1,185	.....	.....	.....	1,099	.....
Double track,.....	85	1,555	.....	.....	.....	.....	.....
Single track, 2 side walks,.....	83	1,120	1,475	.....	.....	1,275	.....
Double track 2 side walks, on sec. 262 Rochester.	123	2,484	.....	.....	.....	2,448	.....
Farm bridge,.....	88	788	.....	865	.....	721	.....
Road, single track, with 2 sidewalks on sec. 219,	103	1,390	.....	.....	.....	1,545	.....
do do do 219,	115	1,552	.....	.....	.....	1,725	.....
do do do 212,	85	1,147	.....	.....	.....	1,275	.....
do do do 212,	88	1,118	.....	.....	.....	1,320	.....
do do do 261,	85	1,147	.....	.....	.....	1,275	.....
Bridge 12 ft. wide,.....	85	.....	.....	.....	1,530	1,820	.....
Single track 17 ft. wide,.....	85	.....	.....	.....	1,615	.....	.....

\* From Section 207 to 314.

† These amounts include the cost of suspension rods on cables which makes the length of the superstructure 140 feet. From 207 to 314 inclusive.

‡ From 207 to 315 inclusive.

*COST of St. Paul Street bridge, Rochester, including superstructure, masonry, &c., on plans Nos. 2, 3 and 4.*

NAMES OF BIDDERS.	Plan No. 2, Marsh's.	Plan No. 3, Beach's.	Plan No. 4, Whipple's.
Briggs & Jones,.....	4,773	.....	6,804
Isaac Hall,.....	.....	5,761	5,980
M. A. Harrington,.....	.....	.....	6,596
Chase & McGlachlin,.....	.....	.....	5,697
Ennis & Morgan,.....	.....	6,230	6,249
E. B. Smith & Co.,.....	.....	7,296	6,435
Erastus Corning & Co.,.....	.....	6,804	.....
J. M. Nelson,.....	.....	5,451	5,820
Estimated cost of abutments,.....	\$714	\$2,745	\$2,745

## BRIDGE ABUTMENTS.

No. of proposition.	NAMES OF BIDDERS.	No. 293.		No. 1.—294.		No. 2.—294.		No. 295.		No. 297.		No. 298.	
		\$1,280		\$1,597		\$1,597		\$1,597		\$1,280		\$1,280	
-78	Burrill, T., .....	1,449	1,720	1,720	1,720	1,720	1,720	1,720	1,423	1,423	1,423	1,437	1,437
1,042	Burchard, B. & Co., .....	1,264	1,531	1,531	1,531	1,531	1,531	1,531	1,264	1,264	1,264	1,264	1,264
315	Butler & Stanbrough, .....	1,346	1,561	1,561	1,561	1,561	1,561	1,561	1,346	1,346	1,346	1,346	1,346
50	Colton, J. C., .....	1,493	1,779	1,779	1,779	1,779	1,779	1,779	1,493	1,493	1,493	1,493	1,493
798	Church, E., .....	1,271	1,528	1,528	1,528	1,528	1,528	1,528	1,271	1,271	1,271	1,271	1,271
651	Cady & Butler, .....	1,572	1,883	1,883	1,883	1,883	1,883	1,883	1,572	1,572	1,572	1,572	1,572
322	Chamberlain & Bradley, .....	1,086	1,319	1,319	1,319	1,319	1,319	1,319	1,086	1,086	1,086	1,086	1,086
943	Chase, Levi, .....	1,347	1,610	1,610	1,610	1,610	1,610	1,610	1,347	1,347	1,347	1,347	1,347
869	Candee, Reed & Co., .....	1,344	1,649	1,649	1,649	1,649	1,649	1,649	1,344	1,344	1,344	1,344	1,344
909	Colt, H. V., .....	1,481	1,772	1,772	1,772	1,772	1,772	1,772	1,481	1,481	1,481	1,481	1,481
581	Chamberlain & Edgerton, .....	1,103	1,546	1,546	1,546	1,546	1,546	1,546	1,103	1,103	1,103	1,103	1,103
4	Charliff, O., .....	1,655	1,975	1,975	1,975	1,975	1,975	1,975	1,655	1,655	1,655	1,655	1,655
806	Ennis, W. H., .....	1,317	1,589	1,589	1,589	1,589	1,589	1,589	1,317	1,317	1,317	1,317	1,317
409	Ellicott, J., .....	1,300	1,569	1,569	1,569	1,569	1,569	1,569	1,300	1,300	1,300	1,300	1,300
453	Field & Munger, .....	1,286	1,540	1,540	1,540	1,540	1,540	1,540	1,286	1,286	1,286	1,286	1,286
47	Grant, L. A. G. B., .....	1,452	1,744	1,744	1,744	1,744	1,744	1,744	1,452	1,452	1,452	1,452	1,452
174	Hard, Gideon & Co., .....	1,964	2,343	2,343	2,343	2,343	2,343	2,343	1,964	1,964	1,964	1,964	1,964
1,113	Harrington, M. A., .....	1,142	1,383	1,383	1,383	1,383	1,383	1,383	1,142	1,142	1,142	1,142	1,142
279	Hinds & Copeland, .....	1,343	1,579	1,579	1,579	1,579	1,579	1,579	1,343	1,343	1,343	1,343	1,343
242	Hughes, J. B., .....	1,269	1,507	1,507	1,507	1,507	1,507	1,507	1,269	1,269	1,269	1,269	1,269

## BRIDGE ABUTMENTS ON SECTIONS.—(CONTINUED.)

No. of repetition.	NAMES OF BIDDERS.	No. 293.		No. 1.—294.		No. 2.—294.		No. 296.		No. 297.		No. 298.	
		Engineers' estimate,		\$1,597		\$1,597		\$1,597		\$1,280		\$1,280	
150	Jackson, J. & Co.,	1,404	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,404	1,404	1,404	1,404
479	King, J. B.,	1,357	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,357	1,357	1,357	1,313
1,015	Learned, E. & Co.,	1,702	2,012	2,012	2,012	2,012	2,012	2,012	2,012	1,702	1,702	1,702	1,702
892	Lee, Britton & Co.,	1,539	1,881	1,881	1,881	1,881	1,881	1,881	1,881	1,539	1,539	1,539	1,539
1,154	Mills & Harwood,	1,286	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,286	1,286	1,286	1,286
1,197	Moore & Williams,	1,463	1,759	1,759	1,759	1,759	1,759	1,759	1,759	1,463	1,463	1,463	1,463
1,069	Nichols, J. H.,	1,385	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,387	1,387	1,387	1,387
573	Peck, L. J.,	1,009	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,009	1,009	1,009	1,009
531	Pringle, B.,	1,280	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,280	1,280	1,280	1,280
356	Reed, E. S.,	1,450	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,450	1,450	1,450	1,450
588	Ryan & Swan,	1,243	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,243	1,243	1,243	1,243
696	Sawyer, J.,	1,312	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,312	1,312	1,312	1,312
1,007	Smith, Moore & Co.,	1,520	1,777	1,777	1,777	1,777	1,777	1,777	1,777	1,520	1,520	1,520	1,520
661	Soper & Field,	1,239	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,239	1,239	1,239	1,239
991	J. O. Spencer,	1,533	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,533	1,533	1,533	1,533
1,168	Severance, H. M.,	1,260	1,542	1,542	1,542	1,542	1,542	1,542	1,542	1,260	1,260	1,260	1,260
75	Turner, Otis,	1,464	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,464	1,464	1,464	1,464
1,000	Walker, Wm.,	1,197	1,432	1,432	1,432	1,432	1,432	1,432	1,432	1,197	1,197	1,197	1,195
1,118	Wright, J. T.,	1,480	1,777	1,777	1,777	1,777	1,777	1,777	1,777	1,480	1,480	1,480	1,480
841	Wood & Clarke,	1,371	1,646	1,646	1,646	1,646	1,646	1,646	1,646	1,371	1,371	1,371	1,371
547	Wagner & Levings,	1,264	1,503	1,503	1,503	1,503	1,503	1,503	1,503	1,264	1,264	1,264	1,264

## BRIDGE ABUTMENTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 308.	No. 309.	No. 311.	No. 312.	No. 1.—312.	No. 2.—312.
		\$1,280	\$1,597	\$1,597	\$1,280	\$1,597	\$1,280
78	Burrill, T., .....	1,392	1,650	1,603	1,351	1,603	1,351
1,040	Burchard, B., .....	1,264	1,531	1,531	1,264	1,531	1,264
353	Brown, Geo., .....	.....	.....	.....	1,600	.....	.....
315	Butler & Stanbrough, .....	1,346	1,561	1,561	1,346	1,561	1,346
140	Collins, A., .....	1,608	1,912	1,912	1,608	1,912	1,608
150	Colton, J. C., .....	1,493	1,779	1,779	1,493	1,779	1,493
798	Church, R., .....	1,271	1,528	1,528	1,271	1,528	1,271
24	Clarke, O., .....	.....	.....	1,850	1,271	1,850	1,271
651	Cady & Butler, .....	1,572	1,883	1,883	1,271	1,779	1,271
322	Chamberlain & Bradley, .....	1,086	1,319	1,319	1,086	1,319	1,086
943	Chase, Levi, .....	943	1,347	1,613	1,613	1,613	1,347
869	Candee, Reed & Co., .....	1,344	1,649	1,649	1,344	1,649	1,344
909	Colt, H. V., .....	1,481	1,772	1,772	1,481	1,772	1,481
581	Chamberlain & Edgerton, .....	1,103	1,346	1,346	1,103	1,346	1,103
4	Charliff, O., .....	1,655	1,975	1,975	1,655	1,975	1,655
622	Danold, C. A., .....	1,079	1,302	.....	.....	1,306	986
409	Ellicott, J. & Co., .....	1,300	1,569	1,569	1,300	1,569	1,300
453	Field & Munger, .....	1,286	1,540	1,540	1,286	1,540	1,286
47	Grant, L. A. G. B., .....	1,452	1,744	1,744	1,452	1,744	1,452
389	Hopkins & Weeks, .....	.....	.....	1,841	.....	.....	.....







## BIDS FOR WORK

*Remaining to be done on the Genesee Valley canal.*

No. of proposition.	NAMES OF PROPOSERS.	Lock 105.		Lock 106.	
	Engineer's estimate, .....	\$11,244		\$15,995	
16	Richard Church, .....	\$12,126	80	\$16,751	86
28	C. T. Chamberlain & Co., .....	14,578	00	18,929	50
59	Abram Vernam, .....	10,694	60	15,344	05
40	Chester Keyes & Co., .....	11,954	60	15,507	90
129	James Napier & Co., .....	10,217	50	14,377	10
152	William Ridsdale & Co., .....	10,620	60	14,717	50
178	Jeremiah Holmes, .....	12,694	90	16,151	20
181	James Thomson & Co., .....	10,286	55	.....	.....
194	Utley Spencer, .....	10,670	30	14,952	05
196	Daniel Judd & Co., .....	12,818	70	16,795	90
203	John R. McArthur & Co., .....	12,182	00	15,083	40
296	Andrew Malcom, .....	10,945	00	17,366	20
334	Joseph Fleming & Co., .....	11,021	10	15,195	60
441	Allen L. Burr & Co., .....	13,680	90	.....	.....
486	Joseph W. Britton & Co., .....	10,703	96	14,724	20
576	James McMurrey & Co., .....	12,356	60	14,928	60
726	Peter C. Ward, .....	8,439	00	11,175	60
741	Theodore G. Mills & Co., .....	11,387	00	14,969	00
766	Hiram Brintnall & Co., .....	11,402	20	14,629	50
773	Jesse Peterson, .....	11,447	60	15,766	70

777	William Mills, .....	11,762 00	16,195 30
736	Tho's A. E. Lyman & Co., .....	13,342 20	16,241 90
828	Edson Hamford, .....	13,789 00	17,282 50
852	Edwin W. Park, .....	10,965 25	15,017 55
871	Russell Martin & Co., .....	10,573 59	12,955 60
874	Cha's H. Sherrill & Co., .....	12,998 40	18,524 60
917	Samuel J. Hunt, .....	12,635 60	16,260 60
876	Andrew Kingsley & Co., .....	12,404 30	16,162 90
940	Joseph Ditto & Co., .....	11,262 20	15,020 60
963	Jacob A. Mead, .....	13,274 00	16,681 70
971	Isaac Hall, .....	93,016 20	11,791 70
988	W. A. Kirkpatrick, .....	11,739 00	15,891 00
979	James P. Rounselle, .....	10,839 00	14,443 80
1,005	Alonzo Hawley, .....	12,710 30	16,612 30
1,008	Calvin B. Lawrence & Co., .....	12,386 05	16,184 25
1,018	Wm. N. Marsh, .....	12,292 20	15,249 20
1,025	Henry V. Colt, .....	12,777 40	.....
1,096	H. M. Severance, .....	11,027 80	15,784 60
1,104	Nelson Hewitt, .....	11,259 40	16,337 40
1,135	Mahlon L. Ross, .....	11,862 55	16,028 75
1,131	Gilbert Peterson & Co., .....	12,587 10	16,000 00
1,147	George Minard, .....	11,661 60	16,995 60
1,190	Tho's R. Brayton & Co., .....	17,135 20	22,125 30
1,230	Robert F. F. Laing, .....	10,048 23	12,228 11

# OIL CREEK AND ROCKVILLE RESERVOIRS.

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[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	Oil Creek.		Rockville.	
		\$46,500 00		\$3,176 00	
	Engineers' estimate, .....				
9	Kingston & Hitchcock, .....	41,117 55		2,305 00	
14	Henry V. Colt, .....	48,240 00		.....	
17	Richard Church, .....	56,667 00		3,684 70	
35	Thomas W. Warner, .....	40,772 00		3,462 00	
29	C. T. Chamberlain & Co., .....	45,693 00		.....	
61	Abram Vernam, .....	46,316 00		.....	
126	James Napier & Co., .....	.....		2,776 00	
153	William Ridsdale & Co., .....	.....		2,826 00	
159	Orange Dayton & Co., .....	.....		.....	
164	Thomas H. Luckey, .....	.....		.....	
179	Jeremiah Holmes, .....	68,987 00		.....	
180	James Thomson & Co., .....	49,519 00		.....	
199	Daniel Judd & Co., .....	38,951 00		.....	
210	Hazen Hughes, .....	44,872 00		.....	
337	John Histed, .....	80,790 00		.....	
382	Cyrus Rose & Co., .....	45,885 00		2,735 00	
439	Allen L. Burr & Co., .....	43,169 00		2,262 00	
444	John R. McArthur & Co., .....	49,755 00		3,794 00	
446	Linus Jones Peck, .....	49,740 00		.....	
614	Isaac N. Hart & Co., .....	41,907 00		3,479 00	
744	James A. Willard, .....	68,891 00		4,960 00	
		79,979 00		5,150 00	
		67,839 00		11,131 00	

776	Jesse Peterson,.....	44,708 00	3,020 00
738	Isaac C. Ball, .....	75,293 00	11,976 00
779	W. Mills, .....	50,496 00	3,914 00
829	Edson Hammond,.....	27,637 00	2,805 00
851	Edwin W. Park,.....	37,639 00	.....
787	Thomas A. E. Lyman, & Co.,.....	51,471 00	3,091 00
875	Charles H. Sherrill & Co., .....	44,129 00	.....
877	Andrew Kingsley & Co., .....	46,418 00	3,279 00
961	Jacob A. Mead,.....	37,136 00	2,805 00
981	James C. Rounsvelle,.....	47,127 00	3,383 00
990	William A. Kirkpatrick,.....	51,455 00	.....
1,003	Alonzo Hawley,.....	30,470 00	.....
1,019	William N. Marsh,.....	46,894 00	2,998 00
1,073	Calvin B. Lawrence & Co.,.....	51,060 00	.....
1,004	Hugh M. Lawrence,.....	46,857 00	3,158 00
1,100	G. L. Walker,.....	47,066 00	.....
1,108	Nelson Hewitt,.....	45,800 00	2,869 00
1,124	Mahlon L. Ross,.....	52,406 00	3,061 00
1,133	Gilbert Peterson & Co.,.....	56,867 00	3,235 00
1,163	Joseph Ditto & Co.,.....	51,295 00	3,998 00
1,186	Joseph Wells,.....	42,700 00	.....
1,204	David H. Richardson,.....	52,449 00	.....

## SECTIONS Nos. 91, 98, 107 G. V. CANAL AND ISCHUA FEEDER.

No. of proposition.	NAMES OF BIDDERS.	Section 91.				Section 98.				Section 107.				Ischua Feeder.			
		\$8,942				\$13,421				\$10,578				\$19,253			
7	Kingston & Hitchcock,.....	8,998				11,810				9,793				14,925			
20	Richard Church,.....	10,291				14,956				11,431				22,049			
29	C. T. Chamberlain & Co.,.....	9,718				14,490				10,956				20,416			
36	Thomas W. Warner,.....	.....				11,305				.....				.....			
62	Abram Vernam,.....	11,221				27,668				11,104				19,485			
128	Jas. Napier & Co.,.....	8,260				11,189				9,220				16,421			
132	Holley Spencer,.....	.....				.....				9,908				.....			
151	William Ridsdale & Co.,.....	9,260				12,080				10,844				15,506			
161	Orange W. Dayton & Co.,.....	9,012				19,164				.....				168,391			
163	Theodore H. Luckey,.....	.....				10,846				.....				.....			
177	Jeremiah Holmes,.....	9,625				11,623				10,596				.....			
198	Daniel Judd & Co.,.....	.....				12,140				9,170				19,650			
202	John R. McArthur & Co.,.....	11,236				12,229				8,510				16,419			
333	Patrick Daly,.....	11,278				12,462				11,635				.....			
335	Joseph Fleming & Co.,.....	.....				.....				10,328				.....			
336	John Histed,.....	9,442				.....				.....				.....			
378	Cyrus Rose & Co.,.....	8,255				9,724				8,478				30,861			
440	Allen L. Burr & Co.,.....	11,209				25,106				12,360				22,159			
445	Linus Jones Peck,.....	14,204				18,674				18,244				27,077			
487	Joseph W. Britton & Co.,.....	.....				.....				9,548				.....			
524	James McMurray & Co.,.....	.....				11,110				10,364				.....			

727	P. C. Ward.....	9,071	11,024	9,904	.....
778	William Mills.....	10,573	13,290	10,940	20,851
737	Isaac Ball.....	.....	46,688	.....	.....
742	Theo. G. Mills & Co.,.....	.....	11,740	8,760	.....
743	James A. Willard.....	.....	39,569	.....	.....
765	Hiram Brintnall & Co.,.....	.....	.....	11,924	.....
771	Calvin B. Lawrence & Co.,.....	.....	.....	11,578	.....
775	Jesse Peterson.....	10,063	.....	10,268	.....
204	James Thomson & Co.,.....	11,236	12,229	8,510	.....
788	Thomas A. E. Lyman & Co.,.....	11,081	13,350	11,270	20,952
853	E. W. Park.....	10,874	.....	10,548	15,548
870	Russell Martin & Co.,.....	.....	.....	11,776	.....
873	Charles H. Sherrill & Co.,.....	11,430	.....	14,042	.....
880	Edson Hammond.....	9,382	11,086	10,794	15,947
878	Andrew Kingsley & Co.,.....	11,737	12,930	11,154	.....
918	Samuel Hunt.....	9,165	.....	10,474	.....
931	James Scott & Co.,.....	.....	13,620	9,515	24,785
941	Walter S. Bailey.....	9,580	11,470	10,686	.....
962	Jacob A. Mead.....	9,382	11,086	10,794	15,947
969	Isaac Hall.....	8,084	9,580	8,446	.....
978	James P. Rounselle.....	10,508	13,201	12,758	.....
990	W. A. Kirkpatrick.....	10,595	12,545	11,256	21,553
1,003	Alonzo Hawley.....	12,030	13,710	10,641	20,312
1,019	William N. Marsh.....	9,289	10,970	11,660	17,110
1,095	H. M. Severance.....	10,303	13,121	10,459	19,279
1,099	Gideon S. Walker.....	.....	11,866	8,553	16,884
1,106	Nelson Hewitt.....	.....	13,826	10,568	.....

## SECTIONS No. 91, 98, 107 G. V. CANAL AND ISCHUA FEEDER.—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Section 91.	Section 98.	Section 107.	Ischua Feeder.
		Engineers' estimate,.....			
1, 126	M. L. Ross,.....	10,906	13,907	11,812	23,113
1, 132	Gilbert Peterson & Co., .....	.....	13,565	11,578	.....
1, 151	George Minard, .....	9,436	13,276	11,298	20,596
1, 186-7	Joseph Wells,.....	11,117	12,187	9,153	18,283
1, 191	Thomas R. Brayton & Co.,.....	11,873	14,966	13,068	28,788
1, 231	Robert Laing,.....	.....	10,748	8,820	17,321

# ISCHUA AQUEDUCT—GENESEE VALLEY CANAL.

Engineers' estimate,..... \$3,660

No. of proposition.	Names of Bidders.	Amount of bid.
18	Richard Church,.....	\$4,161
30	C. T. Chamberlain & Co.,.....	5,338
60	Abram Vernam,.....	3,963
154	Wm. Ridsdale & Co., .....	3,770
160	Orange W. Dayton & Co.,.....	3,752
197	Daniel Judd & Co.,.....	4,056
380	Cyrus Rose & Co.,.....	3,779
525	James McMurrey & Co, .....	3,228
539	John R. McArthur & Co.,.....	3,572
772	Jesse Peterson,.....	3,541
785	Thos. A. E. Lyman & Co., .....	4,025
831	Edson Hammond,.....	3,571
930	James Scott & Co.,.....	5,224
980	James P. Rouns ville, .....	3,387
989	W. A. Kirkpatrick, .....	4,336
1,004	Alonzo Hawley,.....	4,827
1,092	H. M. Severence,.....	3,536
1,107	Nelson Hewitt,.....	3,519
1,134	Gilbert Peterson & Co.,.....	4,306
1,162	Jas. Ditto & Co.,....	4,453
1,150	George Minard, .....	3,791
1,185	Joseph Wells,.....	4,074
1,229	Robert F. Laing,.....	3,634

## BRIDGES ON SECTION NO: 107.—G. V. CANAL.

Engineers' estimate,..... \$1,378

9	Daniel Bloom, .....	\$1,672
19	Richard Church, .....	1,610
176	Jeremiah Holmes,.....	952
201	John R. McArthur & Co., .....	1,574
381	Cyrus Rose & Co.,.....	1,573
433	Allen L. Burr & Co.,.....	1,571
725	Peter C. Ward,.....	810
923	Samuel L. Hunt, .....	1,231



No. of proposition.	Names of Bidders.	Amount of bid.
939	Wm. H. Chase,.....	1,298
982	J. P. Rounselle,.....	1,033
1,093	H. M. Severence,.....	1,465
1,105	Nelson Hewitt,.....	1,423
1,130	Gilbert Peterson & Co., .....	1,930
1,148	George Minard,.....	1,501
1,188	Joseph Mills,.....	1,746

## ERIE CANAL ENLARGEMENT.

*Western sub-division of Western Division.*

### SECTION No. 316.

Engineers' estimate,.....	\$25,565	\$5,410	\$2,253
Names of Bidders.	Sections.	Culverts.	Bridge Abut's.
Collins & Hunter,.....	23,140	5,340	
Mills & Harwood, .....	23,720		
Angus P. McDonald,.....	24,080		
Horace Meigs,.....	24,100		
Henry Cady,.....	24,270	5,695	2,585
Jonas Ingraham,.....	24,490	5,705	
Barton & O'Maley,.....	24,555	5,261	
Isaac N. Stage,.....	24,770	4,473	2,550
John H. Nichols,.....	24,960		
T. & W. Mills, .....	25,020		
S. W. Kneeland,.....	25,030	3,833	1,846
Wm. H. Scott, .....	25,120	6,260	2,457
Martindale & Ferrell,.....	25,150		2,435
John M. K. Hilton, .....	25,155	4,392	1,934
D. S. Morgan,.....	25,160		
John Hayes,.....	25,355		
Colton & Aikin,.....	25,680	5,375	2,410
Wm. Candee & Co.,.....	25,730		
John Vernam & Co.,.....	25,800		
Oliver Charlick,.....	25,880		2,934
Geo. H. Boughton & Co.,.....	26,080		2,209
Nelson Hewitt,.....	26,140		2,439
Wagner & Levings,.....	26,170		2,190
Chamberlain & Edgerton,.....	26,360		1,856
H. Blodgett & Co.,.....	26,585	5,546	
Ryan & Swan, .....	26,670	5,355	2,092
Ellicott & Bentley, .....	26,890		2,190

Names of Builders.	Sections.	Culverts.	Bridge abut's.
Horatio N. Hewes,.....	27,080	5,710	2,097
Hawley & Barton,.....	27,160	5,100	1,885
Otis Turner,.....	27,160	4,356	2,434
James Jackson, Jr.,.....	27,180	5,667	2,317
Guy Sherwood,.....	27,705	5,354	2,708
J. P. Smith, .....	27,850		
Walter J. Church,.....	27,950		
Mahlon L. Ross,.....	28,020	5,228	2,396
Truxton Burrill,.....	28,130		
Thomas King,.....	28,265	4,665	2,677
James Oswald & Co.,.....	28,340		
John T. Wright & Co.,.....	28,560		2,594
Judson W. Sherman,.....	28,560		
Richard Church,.....	28,560		
Thomas A. E. Lyman & Co.,..	28,564		
George M. Lanman, .....	28,850	6,195	2,547
Kingsley & James,.....	28,940		
Parmalee, White & Co., .....	29,116	4,413	2,239
Levi Allen,.....	29,370		
L. A. G. B. Grant,,.....	29,610		2,380
Charles Porter & Co.,.....	29,920	6,893	2,841
Hugh M. Severance,.....	30,510		2,190
Bradley Sherman,.....	30,660		
Saml & John Everett,.....	31,720		
Cleary & Smith,.....	32,540		
Brainard & Edgerton,.....	55,880		
Daniels & Douglass, .....		5,592	
Gideon Hard,.....		4,731	2,116
Henry S. Wells,.....		5,167	
B. & I. Carpenter,.....		5,310	2,245
Chamberlain & Bradley,.....			1,854
M. A. Harrington,..			1,956
Linus Jones Peck,.....			2,052
Field & Munger,.....			2,136
I. B. Hughes,.....			2,384
Jackson & Hitchins,.....			2,383
Asa D. Wood & Co.,.....			2,315
Edward Learned & Co.,.....			2,712
James O. Spencer,.....			2,717

## SECTION NO. 317.

Engineers' estimate, ..... \$26,291      \$1,428

Names of Bidders.	Sections.	Culverts.
Hunter & Collins,.....	21,105	1,679
Horace Meigs,.....	21,648	
Mills & Harwood,.....	22,305	
Angus P. McDonald,.....	22,460	
David H. Danolds,.....	22,465	1,161
Barton & O'Maley,.....	22,645	1,596
Henry Cady,.....	22,768	1,722
John H. Nichols,.....	23,025	
Jonas Ingraham,.....	23,060	1,673
Cha's A. Danolds,.....	23,265	1,156
Martindale & Ferrell,.....	23,270	
T. & Wm. Mills,.....	23,490	
John M. K. Hilton,.....	23,505	1,342
D. S. Morgan,.....	23,565	
Wm. H. Scott,.....	23,720	2,245
John Hayes,.....	23,770	
Horatio N. Hewes,.....	23,735	1,711
Nelson Hewitt,.....	23,830	
Wm. Candee & Co.,.....	23,850	
Colton & Aikin,.....	23,865	1,501
John Vernam & Co.,.....	23,965	
Hiram Baker,.....	23,985	1,699
Oliver Charlick, ...	24,012	
Isaac N. Stage,.....	24,215	1,059
Geo. H. Boughton & Co.,.....	24,275	
Cha's A. Harrington & Co.,.....	24,345	1,505
David Wagner & Co.,.....	24,385	
Ryan & Swan,.....	24,457	1,641
Chamberlain & Edgerton,.....	24,466	
James Jackson, Jr.,.....	24,732	1,659
Heman Blodgett & Co.,.....	24,784	1,619
Ellicott & Bentley,.....	24,969	
Otis Turner,.....	25,180	1,561
Kingsley & James,.....	25,330	
Hawley & Barton,.....	25,655	1,392
Walter J. Church,.....	25,865	
Mahlon L. Ross,.....	25,920	1,625
J. P. Smith,.....	25,930	
Guy Sherwood,.....	26,157	1,477
John T. Wright & Co.,.....	26,330	
Judson W. Sherman,.....	26,330	

Names of Bidders.	Sections.	Culverts.
Richard Church, .....	26,330	
Thomas King, .....	26,525	1,305
L. A. G. B. Grant, .....	26,675	
Truxton Burrill, .....	26,765	
James Oswald & Co., .....	27,210	
Parmelee, White & Co., .....	27,300	1,418
Geo. M. Lanman, .....	27,335	1,917
Charles Porter & Co., .....	27,520	1,888
Levi Allen, .....	27,765	
Samuel & John Everett, .....	28,320	
Hugh M. Severance, .....	28,429	
Bradley Sherman, .....	28,444	
Thomas A. E. Lyman & Co., .....	30,433	
Wm. Cleary & Cha's Smith, .....	30,620	
Brainard & Edgerton, .....	53,375	
B. & J. Carpenter, .....		1,418
Henry S. Wells, .....		1,464
Daniels & Douglass, .....		1,720

## SECTION No. 318.

Engineers' estimate, .....	<u>\$39,037</u>	<u>\$17,498</u>
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Names of Bidders.	Sections.	Culverts.
Theo. & William Mills, .....	\$33,475	
Horace Meigs, .....	33,650	
Thompson & Nelson, .....	35,452	
Franklin Spaulding & Co., .....	35,710	18,254
John M. K. Hilton, .....	36,135	14,664
Sheldon Bronson, .....	36,440	
Mills & Harwood, .....	36,720	
Barton & O'Maley, .....	37,420	15,199
Chas A. Danolds, .....	37,540	14,625
Henry Cady, .....	37,635	19,615
Angus P. McDonald, .....	37,800	
Horatio N. Hewes, .....	37,885	16,486
John Hayes, .....	38,175	
Hunter & Collins, .....	38,565	20,126
Linus Jones Peck, .....	38,650	
Jonas Ingraham, .....	38,750	19,189
D. S. Morgan, .....	38,850	
Frisbee & Britt, .....	39,250	
John H. Nichols, .....	39,430	
William Candee & Co., .....	39,459	

Names of Bidders.	Sections.	Calverts.
Colton & Aikin, .....	39,710	17,508
Hawley & Barton, .....	39,750	16,256
William H. Scott, .....	39,780	22,930
James Jackson, jun., .....	40,020	17,706
Ryan & Swan, .....	40,290	16,018
Orville Clark, .....	40,620	18,705
Chas. Porter & Co., .....	40,730	21,384
John Vernam & Co., .....	40,890	
Oliver Charlick, .....	41,180	
Kingsley & James, .....	41,290	
Ellicott & Bentley, .....	41,335	
Hiram Baker, .....	41,350	18,720
Chas. A. Harrington & Co., .....	41,515	18,672
N. Osborn, .....	41,580	
George H. Boughton & Co., .....	42,150	
Heman Blodgett & Co., .....	42,340	18,728
Parmelee, White & Co., .....	42,362	15,595
Nathan G. King & Co., .....	42,465	18,798
Gideon Hard, .....	42,465	16,993
Sutton & Phillips, .....	42,500	17,940
D. P. Smith, .....	42,590	
Isaac N. Stage, .....	42,820	15,586
Mahlon L. Ross, .....	42,830	17,423
Otis Turner, .....	42,850	19,837
Nelson Hewitt, .....	42,980	20,264
Thomas King, .....	42,995	15,345
Alexander H. Schultz, .....	43,150	
Thomas A. E. Lyman & Co., .....	43,150	
Levi Allen, .....	43,330	
George M. Lanman, .....	43,390	21,051
James Oswald & Co., .....	44,170	
Milton Courtright, .....	44,485	17,948
Saml. & John Everett, .....	44,630	
Truxton Burrell, .....	45,100	
L. A. G. B. Grant, .....	45,100	
Guy Sherwood, .....	45,370	
Asa W. Douglass & Co., .....	45,410	
S. Pierce & Co., .....	45,595	17,447
Chamberlain & Edgerton, .....	45,460	
William Scott, .....	46,960	
John T. Wright & Co., .....	47,700	
Judson W. Sherman, .....	47,700	
Richard Church, .....	47,700	
Cleary & Smith, .....	47,770	
Orin Britt, .....	47,862	
G. D. & W. G. Goodale, .....	49,940	
Hugh M. Severance, .....	50,440	
Bradley Sherman, .....	50,700	

	Sections.	Culverts.
Walter I. Church,.....	56,340	
Brainard & Egerton,.....	71,090	
B. & J. Carpenter,.....	.....	16,175
Henry S. Wells,.....	.....	17,350
Daniels & Douglass,.....	.....	19,642

## SECTION No. 319.

Engineers' estimate,.....	<u>\$36,015</u>	<u>\$4,956</u>	<u>\$3,760</u>
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Names of Bidders.	Sections.	Culverts.	Bridge abut.
Frisbie & Britt,.....	\$28,365		
J. Thompson & Wm. J. Nelson,	29,546		
Barker & Talbot, .....	29,920		
T. & W. Mills, .....	32,010		
Mills & Harwood,.....	32,180		
D. S. Morgan,.....	32,320		
Chas. A. Danolds,.....	23,960	\$4,292	\$3,149
Wm. Candee, & Co.,.....	33,420		
Barton & O'Maley,.....	33,470	4,910	
Angus P. McDanald,.....	33,480		
Nelson Hewitt,.....	34,170	5,629	4,292
Jonas Ingraham & Co.,.....	34,245	5,716	
Orville Clark,.....	34,500	4,873	4,540
Samuel C. Holden,.....	34,760		3,875
John H. Nichols, .....	34,830		
N. Osborn,.....	35,080		
Orrin Britt, .....	35,150		
James Jackson, Jr., .....	35,510	5,654	4,105
Wm. H. Scott, .....	35,555	6,370	4,280
Guy Sherwood,.....	35,650		
Oliver Charlick,.....	35,750		5,142
Hiram Baker,.....	36,150	4,921	4,150
Sheldon Bronson,.....	36,180		
John Hayes, .....	36,180		
G. H. Boughton & Co.,.....	36,200		3,885
Hawley & Barton, .....	36,400	4,959	3,280
Chamberlain & Edgerton, .....	36,440		3,265
Ryan & Swan, .....	36,710	5,527	3,645
Heman Blodgett & Co.,.....	36,760	4,925	
Nathan G. King & Co.,.....	36,820	4,977	
Colton & Aikin,.....	36,920	5,502	4,110
Horace Meigs,.....	36,930		
Mahlon L. Ross,.....	37,050	5,013	4,218

<u>Names of Bidders.</u>	<u>Sections.</u>	<u>Culverts.</u>	<u>Bridge abut.</u>
Isaac N. Stage, .....	37,080	3,971	4,180
Ellicott & Bentley, .....	37,850		3,820
Parmelee, White & Co., .....	37,946	4,267	3,905
John Vernam & Co., .....	37,960		
Walter I. Church, .....	38,000		
Richard Church, .....	38,030		
Judson W. Sherman, .....	38,030		
John T. Wright & Co., .....	38,030		4,542
Truxton Burrill, .....	38,370		
L. A. G. B. Grant, ..	38,420		4,140
J. P. Smith, .....	38,420		
Thomas King, .....	38,470	4,815	4,755
Geo. M. Lanman, .....	38,650	5,824	4,376
Horatio N. Hewes, .....	38,680	6,482	3,658
Henry Cady, .....	38,765	5,257	4,580
Miltou Courtwright, .....	39,100	6,232	
Sutton & Phillips, ...	39,170	5,400	3,300
Linus Jones Peck, .....	39,740		3,624
Daniels & Douglass, .....	40,000	4,662	
Chs. Porter & Co., .....	41,020	6,571	5,048
Bradley Sherman, .....	41,490		
Levi Allen, .....	41,750		
Saml. & John Everett, .....	41,950		
Otis Turner, .....	42,010	5,220	4,237
Hugh M. Severance, .....	42,660		3,860
James Oswald & Co., .....	42,980		
Cleary & Smith, .....	43,180		
G. D. & W. G. Goodale, .....	47,180		
Brainard & Edgerton, .....	69,380		
Henry S. Wells, .....		5,030	
Chamberlain & Bradley, .....			3,257
Wagner & Levings, .....			3,858
Field & Munger, .....			3,698
B. & J. Carpenter, .....			3,960
Asa D. Wood & Co., .....			4,000
Edward Learned & Co., .....			4,545
Jackson & Hitchins, .....			4,123
J. B. Hughes, .....			4,192
James O. Spencer, ..			4,762
M. A. Harrington, .....			3,432

## SECTION No. 320.

Engineers' estimate, . . . . .	<u>\$47,346</u>	<u>\$1,880</u>
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Names of Bidders.	Sections.	Br. Abutments.
Harvey E. Williams, . . . . .	\$20,050	
Robert Ennis, . . . . .	28,370	
Hague & Peters, . . . . .	28,515	
D. S. Morgan, . . . . .	29,590	
Otis Turner, . . . . .	30,115	\$2,156
Edward & Thomas Kearns, . . . . .	30,265	
Theo. & Wm. Mills, . . . . .	30,580	
Henry Cady, . . . . .	30,845	2,285
Ellicott & Bentley, . . . . .	30,905	1,935
G. H. Boughton & Co., . . . . .	31,095	1,942
Chas. A. Danolds & Co., . . . . .	31,275	1,612
Thompson & Nelson, . . . . .	31,440	
Wm. Candee & Co., . . . . .	31,550	
Joseph M. Demmon, . . . . .	31,570	
Barker & Talbot, . . . . .	31,825	
Barton & O'Maley, . . . . .	31,980	
Mills & Harwood, . . . . .	32,050	
Truxton Burrill, . . . . .	32,860	
L. A. G. B. Grant, . . . . .	32,910	2,105
Horace Meigs, . . . . .	32,990	
Gideon Hard, . . . . .	33,095	
Samuel Andrews, . . . . .	33,775	2,282
Asa W. Douglass, . . . . .	33,880	
John Hayes, . . . . .	33,980	
James Jackson, jr., . . . . .	34,555	2,050
Frisbie & Britt, . . . . .	34,700	
Orville Clark, . . . . .	34,715	2,295
Linus Jones Peck, . . . . .	34,960	1,812
Samuel C. Holden, . . . . .	35,190	1,942
Hawley & Barton, . . . . .	35,770	1,665
Samuel & John Everett, . . . . .	36,630	
Jacob Lawyer, . . . . .	37,005	
Geo. M. Lanman, . . . . .	37,180	2,263
Horatio N. Hewes, . . . . .	37,430	1,709
Heman Blodgett & Co., . . . . .	37,600	
Guy Sherwood, . . . . .	37,612	
Isaac Colton & E. Aikin, . . . . .	37,625	2,155
Parmelee, White & Co., . . . . .	37,715	1,977
James Oswald & Co., . . . . .	37,995	
J. P. Smith, . . . . .	38,010	
Oliver Charlick, . . . . .	38,605	2,596
Ryan & Swan, . . . . .	38,760	1,847



Names of Bidders.	Sections.	Pr. Amounts.
Orrin Britt, .....	38,821	
Cleary & Smith, .....	38,860	
John McCabe & Co., .....	38,865	
Thomas King, .....	38,875	2,377
Sutton & Phillips, .....	40,580	1,675
Hiram Baker, .....	40,705	2,095
Chamberlain & Edgerton, .....	40,990	1,638
H. W. Campbell, .....	42,365	
Milton Courtwright, .....	43,160	
John Vernam & Co., .....	43,435	
Walter J. Church, .....	45,610	
Levi Allen, .....	46,385	
Jonas Ingraham, .....	46,520	
Jos. & James Peacock, jr., .....	46,935	
Chas. Porter & Co., .....	47,090	2,524
Wm. H. Scott, ....	47,225	2,177
Hugh M. Severance, .....	47,310	1,935
Isaac N. Stage, .....	47,670	2,250
Judson W. Sherman, .....	48,100	
Richard Church, .....	48,100	
John T. Wright & Co., .....	48,800	2,296
N. Osborn, .....	48,955	
Bradley Sherman, .....	52,818	
Angus P. McDonald, .....	54,745	
John H. Nichols, .....	54,910	
Brainard & Edgerton, .....	62,480	
Chamberlain & Bradley, .....		1,636
M. A. Harrington, .....		1,728
Field & Munger, .....		1,899
Wagner & Levings, .....		1,934
B. & J. Carpenter, .....		1,990
Asa D. Wood & Co., .....		2,050
J. B. Hughes, .....		2,101
Jackson & Hitchins, .....		2,111
James O. Spencer, .....		2,393
Edward Leonard & Co., .....		2,422

## SECTION No. 322.

Engineers' estimates, ..... \$37,973      \$2,932      \$3,760

Names of Bidders.	Sections.	Culverts.	Bridges abutments.
Hague & Peters, .....	\$4,020		
T. & W. Mills, .....	36,370		

Harvey E. Williams, .....	36,885		
Robert Ennis, .....	37,295		
Mills & Harwood, .....	37,380		
Thompson & Nelson, .....	37,916		
Barton & O'Maley, .....	38,000	2,770	
Horace Meigs, .....	38,025		
John McCabe & Co., .....	38,925		
Martindale & Ferrell, .....	39,510		3,650
John Hayes, .....	39,655		
Henry Cady, .....	39,720	3,315	4,520
Jonas Ingraham, & Co., .....	40,305	3,376	
John Vernam & Co., .....	40,620		
Wm. Candee & Co., .....	40,765		
Angus P. McDonald, .....	40,920		
Oliver Charlick, .....	41,085		5,142
John H. Nichols, .....	41,300		
G. H. Boughton & Co, .....	41,710		3,885
Parmele, White, & Co., .....	41,746	2,695	3,905
Ryan & Swan, .....	42,125	3,044	
H. W. Campbell, .....	42,245		
Wm. H. Scott, .....	42,300	4,200	4,280
Ellicott & Bentley, .....	42,675		3,820
Chamberlain & Edgerton, .....	43,030		3,265
Hugh M. Severance, .....	43,145		3,860
James Jackson, jr., .....	43,400	3,114	4,100
Jacob Lawyer, .....	43,575	3,573	
Linus Jones Peck, .....	43,610		3,624
Heman Blodgett & Co., .....	43,635	3,538	
Geo. W. Peck, .....	43,780	2,740	4,424
N. Osborn, .....	43,890		
J. P. Smith, .....	44,570		
Colton & Aikin, .....	44,610	2,957	4,110
Geo. M. Lanman, .....	44,860	3,714	4,376
Hawley & Barton, .....	44,960	2,859	3,580
Walter I. Church, .....	45,105		
Thomas King, .....	45,345	2,620	4,755
Judson W. Sherman, .....	46,100		
Rich. Church, .....	46,100		
John T. Wright & Co., .....	46,140		4,512
L. A. G. B. Grant, .....	46,230		4,140
Truxton Burrell, .....	46,230		
Barker & Talbot, .....	46,485		
Sutton & Phillips, .....	46,680	2,765	3,300
James Oswald & Co., .....	46,980		
Levi Allen, .....	47,290		
Otis Turner, .....	48,000	3,519	4,237
Daniels & Douglass, .....	48,875	3,523	
Bradley Sherman, .....	49,640		

Names of Bidders.	Sections.	Culverts.	Br. Abutm'ts.
Samuel & John Everett, .....	50,720		
Wm. Cleary & Smith, .....	52,115		
Chas. Porter & Co., .....	53,235	3,556	5,048
G. D. & W. G. Goodale, .....	57,525		
Brainard & Edgerton, .....	78,230		
Henry S. Wells, .....		2,927	
B. & J. Carpenter, .....		3,183	3,640
Chamberlain & Bradley, .....			3,257
M. A. Harrington, .....			3,432
Field & Munger, .....			3,698
Wagner & Levings, .....			3,858
Asa D. Wood & Co., .....			4,000
J. B. Hughes, .....			4,192
Jackson & Hitchins, .....			4,123
Edward Learned & Co., .....			4,545
James O. Spencer, .....			4,752

### SECTION 323.

Engineers' estimate, .....	<u>\$27,804</u>	<u>\$4,320</u>	<u>\$2,252</u>
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Names of Bidders.	Sections.	Culverts.	Bridge abut'm'ts.
Hague & Peters, .....	\$23,540		
Wm. Candee & Co., .....	23,660		
Harvey E. Williams, .....	24,035		
Mills & Harwood, .....	24,345		
T. & W. Mills, .....	24,530		
Thompson & Nelson, .....	25,026		
Horace Meigs, .....	25,040		
Henry Cady, .....	25,640	\$5,225	\$2,600
Jones, Ingraham & Co., .....	26,240	5,430	
Barker & Talbot, .....	26,580		
Martindale & Ferrell, .....	26,900		2,110
John Hayes, .....	26,970		
Angus P. McDonald, .....	27,050		
John H. Nichols, .....	27,250		
Avery S. Delano, .....	27,350	4,300	1,935
G. H. Boughton & Co., .....	27,390		2,223
Parmelee, White & Co., .....	27,426	4,445	2,251
H. W. Campbell, .....	27,630		
Wm. H. Scott, .....	27,730	6,860	2,477
Jacob Sawyer, .....	27,910	5,705	
Hawley & Barton, .....	27,960	4,305	2,069
Herman, Blodgett & Co., .....	28,220	5,740	

Ellicott & Bentley, .....	\$28,475	
Chamberlain & Edgerton, .....	28,620	
Geo. W. Peck, .....	28,700	\$4,700
Oliver Charlick, .....	28,710	
Hugh M. Severance, .....	28,970	
James Oswald & Co., .....	29,210	
Linus Jones Peck, .....	29,260	
Ryan & Swan, .....	29,470	4,840
J. P. Smith, .....	28,590	
Colton & Aikin, .....	29,660	4,710
James Jackson, jr., .....	29,720	4,827
G. M. Lanman, .....	30,285	5,980
Walter D. Church, .....	30,340	
N. Osborn, .....	30,490	
Sutton & Phillips, .....	30,580	5,000
Levi Allen, .....	30,610	
John McCabe & Co., .....	30,990	
L. A. G. B. Grant, .....	31,070	
Truxton Burrill, .....	31,070	
Richard Church, .....	31,240	
Judson W. Sherman, .....	31,240	
John T. Wright & Co., .....	31,260	
Otis Turner, .....	32,020	5,500
Chs. Porter & Co., .....	32,640	5,680
Kingsley & James, .....	32,920	
Samuel & John Everett, .....	22,980	
Bradley Sherman, .....	33,450	
G. D. & W. G. Goodale, .....	39,070	
Thomas King, .....		4,120
B. & J. Carpenter, .....		4,305
Henry S. Wells, .....		4,710
Daniels & Douglass, .....		5,855
Chamberlain & Bradley, .....		
M. A. Harrington, .....		
Field & Munger, .....		
Wagner & Levings, .....		
Asa D. Wood & Co., .....		
J. B. Hughes, .....		
Jackson & Hitchins, .....		
James O. Spencer, .....		
Edward Learned & Co, .....		

# SECTION No. 324.

Engineers' estimate, ..... \$29,185      \$4,102

Names of bidders.	Sections.	Bridge abut's.
Wm. Candee & Co., .....	\$23,580	
Hague & Peters, .....	23,920	
Thompson & Nelson, .....	24,226	
Horace Meigs, .....	25,380	
Harvey E. Williams, .....	26,295	
Martindale & Ferrell, .....	26,325	4,550
Barton & O'Maley, .....	26,380	
Angus P. McDonald, .....	26,420	
John H. Nichols, .....	26,510	
Henry Cady, .....	27,010	4,835
Wm. H. Scott, .....	27,250	4,580
John Vernam & Co., .....	27,410	
Geo. W. Peck, .....	27,480	4,095
H. W. Campbell, .....	27,510	
G. H. Boughton & Co., .....	27,570	4,166
John Hayes, .....	27,570	
Chamberlain & Edgerton, .....	27,640	3,497
Ellicott & Bentley, .....	27,745	4,095
Barker & Talbot, .....	27,780	
Jonas Ingraham, .....	28,030	
Hugh M. Severance, .....	28,080	4,131
Oliver Charlick, .....	28,410	5,498
Avery S. Delano, .....	28,760	3,580
N. Osborne, .....	28,820	
Parmelee, White & Co., .....	28,826	4,179
Jacob Sawyer, .....	28,840	
Heman Blodgett & Co., .....	29,070	
Walter J. Church, .....	29,220	
J. P. Smith, .....	29,370	
Peterson & Willard, .....	29,500	
Linus Jones Peck, .....	29,550	3,884
Colton & Aikin, .....	29,560	4,391
John T. Wright & Co., .....	29,770	4,858
Judson W. Sherman, .....	29,770	
Richard Church, .....	29,770	
Geo. M. Lanman, .....	30,040	4,677
Truxton Burrill, .....	30,410	
Thomas King, .....	30,480	5,075
Levi Allen, .....	30,640	
L. A. G. B. Grant, .....	30,850	4,435
James Oswald & Co., .....	31,000	
Otis Turner, .....	31,490	4,531

James Jackson, Jr., .....	\$32,145	\$4,381
Bradley Sherman, .....	32,170	
Sutton & Phillips, .....	32,500	3,534
Ryan & Swan, .....	32,530	3,906
Hawley & Barton, .....	33,230	2,832
Sam'l & John Everett, .....	33,710	
Cha's Porter & Co., .....	34,620	5,383
Cleary & Smith, .....	35,320	
Kingsley & James, .....	38,200	
G. D. & W. G. Goodale, .....	40,880	
Chamberlain & Bradley, .....		3,489
M. A. Harrington, .....		3,674
Field & Munger, .....		3,953
B. & J. Carpenter, .....		3,908
Wagner & Levings, .....		4,145
Asa D. Wood & Co., .....		4,280
J. B. Hughes, .....		4,341
Jackson & Hitchins, .....		4,410
Edward Learned & Co., .....		4,853
James O. Spencer, .....		5,095

#### SECTION No. 325.

Engineer's estimate, ..... \$28,977

Names of Bidders.	Sections.
Harvey E. Williams, .....	22,610
Wm. Candee & Co., .....	23,230
Thompson & Nelson, .....	23,486
Hayne & Peters, .....	24,465
Henry Cady, .....	24,635
Jonas Ingraham, .....	24,775
Angus P. McDonald, .....	24,890
Martindale & Ferrell, .....	24,905
John H. Nichols, .....	24,985
Horace Meigs, .....	25,585
Wm. H. Scott, .....	25,645
Isaac N. Stage, .....	25,685
Chamberlain & Edgerton, .....	25,870
Hawley & Barton, .....	26,025
G. H. Boughton & Co., .....	26,025
John Vernam & Co., .....	26,030
Barker & Talbot, .....	26,065

[Assembly, No. 90.]

Names of Bidders.	Sections.
John Hayes, .....	\$26,245
Ellicott & Bentley, .....	26,265
Heman Blodgett & Co., .....	26,685
Jacob Sawyer, .....	26,485
Oliver Charlick, .....	27,050
Hugh M. Severance, .....	27,185
Avery S. Delano, .....	27,255
Peterson & Willard, .....	27,470
Ryan & Swan, .....	27,480
Walter J. Church, .....	27,565
N. Osborn, .....	27,570
James Jackson, Jr., .....	27,760
Parmelee, White & Co., .....	27,761
Linus Jones Peck, .....	27,805
J. P. Smith, .....	27,925
John T. Wright & Co., .....	28,095
Judson W. Sherman, .....	28,095
Richard Church, .....	28,095
Colton & Aikin, .....	28,225
Sutton & Phillips, .....	28,620
Geo. M. Lanman, .....	28,660
Levi Allen, .....	28,920
James Oswald & Co., .....	29,140
L. A. G. B. Grant, .....	29,305
Thomas King, .....	29,310
Otis Turner, .....	29,885
Bradley Sherman, .....	30,280
Saml. & John Everett, .....	31,940
Charles Porter & Co., .....	33,070
Oleary & Smith, .....	33,790

## SECTION No. 326.

Engineers' estimate, .....	\$30,667	\$8,100	\$5,040
	<u>          </u>	<u>          </u>	<u>          </u>
Names of Bidders.	Sections.	Culverts.	Bridge abut.
Hague & Peters, .....	23,230		
Harvey E. Williams, .....	25,925		
Horace Meigs, .....	26,015		
Avery S. Delano, .....	27,820	7,560	4,235
Thompson & Nelson, .....	27,846		
Samuel Andrews, .....	28,110	7,096	
Wm. Cande & Co., .....	28,850		
Jonas Ingraham & Co., .....	28,945	9,250	

Names of Bidders.	Sections.	Culverts.	Bridge abut.
Chamberlain & Edgerton, .....	\$29,760		\$4,243
Martindale & Ferrell, .....	29,595		4,735
Angus P. McDonald, .....	29,615		
Henry Cady, .....	29,665	\$9,475	5,865
John H. Nichols, .....	29,710		
Barton & O'Maley, .....	29,965		
Hawley and Barton, ..	29,965	7,960	4,256
John Hayes, .....	30,045		
Isaac N. Stage, .....	30,140	7,050	5,825
Parmelee, White & Co., .....	30,256	7,887	5,067
John Vernam & Co., .....	30,440		
Wm. H. Scott, .....	30,685	11,200	5,550
Barker & Talbot, .....	30,800		
Geo. H. Boughton & Co., ....	30,880		5,063
Ellicott & Bentley, .....	30,990		4,965
Jacob Sawyer, .....	31,070	10,195	
Heman Blodgett & Co., .....	31,225	10,145	
N. Osborn, .....	31,270		
Ryan & Swan, .....	31,450	8,175	4,738
Oliver Charlick, .....	31,475		6,672
James Jackson, Jr., .....	31,680	8,717	5,278
Sutton & Phillips, .....	31,680	9,885	4,282
Hugh M. Severance, .....	31,845		5,018
Colton & Aikin, .....	32,210	8,500	5,288
J. P. Smith, .....	32,380		
Peterson & Willard, .....	32,620		
Walter J. Church, .....	33,020		
Geo. M. Lanman, .....	33,135	10,300	5,645
Linus Jones-Peck, .....	33,345		4,714
Thomas King, .....	33,580	7,350	6,115
John T. Wright & Co., .....	33,745		5,892
Judson W. Sherman, .....	33,745		
Richard Church, .....	33,745		
James Oswald & Co., .....	34,220		
L. A. G. B. Grant, .....	34,280		5,275
S. Pierce & Co., .....	34,348	8,685	5,817
Levi Allen, .....	34,400		
Otis Turner, .....	34,925	10,870	5,491
Chris. Porter & Co., .....	35,080	10,050	6,486
Bradley Sherman, .....	36,270		
Kingsley & James, .....	36,610		
Samuel & John Everett, .....	36,985		
Cleary & Smith, .....	38,350		
B. & J. Carpenter, .....		8,370	4,744
Harry S. Wells, .....		8,550	
Daniels & Douglass, .....		9,590	
Chamberlain & Bradley, .....			4,235
M. A. Harrington, .....			4,660



Names of Bidders.	Sections.	Culverts.	Bridge abut.
Field & Munger, .....			\$4,776
Wagner & Levings, .....			5,036
Asa D. Wood & Co., .....			5,175
J. B. Hughes, ... ..			5,273
Jackson & Hitchins, .....			5,337
Edward Learned & Co., .....			5,829
Samuel Andrews, .....			5,867
James O. Spencer, .....			6,193

## SECTION No. 327.

Engineers' estimate, .....	<u>\$29,388</u>	<u>\$3,600</u>	<u>\$1,880</u>
Thompson & Nelson, .....	23,136		
William B. Moore, .....	23,540		
Harvey E. Williams, .....	23,700		
Hague & Peters, .....	24,230		
Avery S. Delano, .....	25,435	3,480	1,695
Hilton & Ferry, .....	25,760	3,542	1,690
Chamberlain & Edgerton, .....	25,880		1,638
Jonas Ingraham & Co., .....	25,900	4,350	
Barker & Talbot, .....	26,000		
William Candee & Co., .....	26,020		
Angus P. McDonald, .....	26,560		
John H. Nichols, .....	26,760		
Henry Cady, .....	27,010	4,375	2,285
Martindale & Ferrell, .....	27,080		1,850
William H. Scott, .....	27,560	5,500	2,177
Parmelee, White & Co., .....	27,586	3,512	1,977
George H. Boughton & Co., ...	27,740		1,942
Hawley & Barton, .....	27,860	3,585	1,665
John Vernam & Co., .....	27,890		
Heman Blodgett & Co., .....	27,900	4,685	
Ellicott & Bentley, .....	28,085		1,935
John Hayes, .... .	28,120		
Ryan & Swan, .....	28,290	4,025	1,847
Oliver Charlick, .....	28,410		2,596
James Jackson, jun., .....	28,410	3,945	2,050
Sutton & Phillips, .....	28,440	4,160	1,675
N. Osborn, .....	28,470		
Hugh M. Severance, .....	29,020		1,925
J. P. Smith, .....	29,260		
Peterson & Willard, .....	29,280		

Names of Bidders.	Sections.	Cubics.	Cuads.
James Oswald & Co., .....	\$29,520		
Colton & Aikin, .....	29,610	\$3,900	\$2,155
Levi Allen, .....	30,000		
Linus Jones Peck, .....	30,060		1,812
Walter J. Church, .....	30,250		
Geo. M. Lanman, .....	30,340	4,875	2,263
Daniels & Douglass, .....	30,590		
Thomas King, .....	30,620	3,350	2,377
Truxton Burrell, ....	30,950		
John T. Wright & Co., .....	31,020		2,296
Judson W. Sherman, .....	31,020		
Richard Church, .....	31,020		
Chas. Porter & Co., .....	31,200	4,425	2,524
L. A. G. B. Grant, .....	31,300		2,105
Otis Turner, .....	31,800	4,610	2,156
N. W. Gardiner, .....	32,840	4,850	
Kingsley & James, .....	32,940		
Bradley Sherman, .....	33,070		
Samuel & John Everett, .....	33,160		
Cleary & Smith, .....	34,660		
G. D. & W. G. Goodale, .....	39,500		
B. & J. Carpenter, .....		3,545	1,825
Henry S. Wells, .....		3,900	
Chamberlain & Bradley, .....			1,636
Field & Munger, .....			1,899
Wagner & Levings, .....			1,940
W. B. Hughes, .....			2,030
Asa D. Wood & Co., .....			2,050
Jackson & Hitchins, .....			2,111
Dudley Curtiss, .....			2,207
No. 874, .....			2,277
James O. Spencer, .....			2,393
Edward Learned & Co., .....			2,422

### SECTION No. 328.

Engineers' estimate, ..... \$34,502

Names of Bidders.	Sections.
Hague & Peters, .....	25,160
Harvey E. Williams, .....	27,960
Thompson & Nelson, .....	28,956
Samuel Andrews, .....	29,350
Jonas Ingraham, .....	31,740

Names of Bidders.	Bids.
Orville Clark, .....	\$31,790
John Hayes, .....	31,880
Horace Meigs, .....	31,930
Hilton & Terry, .....	32,770
James Oswald & Co., .....	33,030
William Cande & Co., .....	33,180
G. H. Boughton & Co., .....	33,300
Sheldon Bronson, .....	33,580
Avery S Delano, .....	33,630
Henry Cady, .....	33,750
Hawley & Barton, .....	33,890
James Jackson, jun., .....	33,970
Parmele, White & Co., .....	34,100
John Vernam & Co., .....	34,170
Oliver Charlick, .....	34,510
Herman Blodgett & Co., .....	34,620
Colton & Aikin, .....	34,870
N. Osborn, .....	34,990
Wm. H. Scott, .....	35,090
Ellicott & Bentley, .....	35,345
Ryan & Swan, .....	35,515
Angus P McDonald, .....	35,660
J. P. Smith, .....	35,720
Hugh M. Severance, .....	36,055
John H. Nichols, .....	36,450
Geo. M. Lanman, .....	36,575
Sutton & Phillips, .....	36,860
Thomas King, .....	37,000
James Burns, .....	37,165
Peterson & Willard, .....	37,400
Chamberlain & Edgerton, .....	37,620
Levi Allen, .....	37,700
Linus Jones Peck, .....	37,840
Truxton Burrell, .....	37,920
Barker & Talbot, .....	28,010
L. A. G. B. Grant, .....	38,175
Edward & Thomas Kerns, .....	38,310
Kingsley & James, .....	38,490
Cleary & Smith, .....	38,780
Walter I. Church, .....	39,210
Otis Turner, .....	39,230
Samuel & John Everett, .....	40,130
Richard Church, .....	40,610
Judson W. Sherman, .....	40,610
John T. Wright & Co., .....	40,670
N. W. Gardner, .....	41,430
John Mabey, .....	41,445
Sherman McLane, .....	42,390

Bradley Sherman,.....	\$42,680
Daniels & Douglass,.....	43,170
Chas. Porter & Co.,.....	43,600

# SECTION No. 329.

Engineers' estimate,.....	<u>\$30,242</u>	<u>\$6,838</u>	<u>\$4,132</u>
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Names of Bidders.	Sections.	Calverts. Bridge abutts.	
Hague & Peters,.....	21,270		
Thompson & Nelson,.....	24,876		
Harvey E. Williams,.....	25,840		
Addison C. Moore,.....	27,690		
William Candee & Co.,.....	27,780		
Sheldon Bronson,.....	28,290		
Jonas Ingraham & Co.,.....	28,390	7,378	
Hilton & Terry,.....	28,490	6,033	3,663
Hawley & Barton,.....	28,550	5,937	3,512
Chamberlain & Edgerton,.....	28,860		3,497
Barker & Talbot,.....	28,980		
Angus P. McDonald,.....	29,070		
Orville Clark,.....	29,080	6,756	4,860
Ryan & Swan,.....	29,920	6,663	3,906
John H. Nichols,.....	29,960		
James Jackson, Jr.,.....	30,120	7,024	4,381
John Hayes,.....	30,170		
Sutton & Phillips,.....	30,400	6,496	3,534
William H. Scott,.....	30,430	8,505	4,580
Colton & Aikin,.....	30,520	6,726	4,191
Henry Cady,.....	30,600	6,980	4,835
Heman Blodgett & Co.,.....	30,610	7,532	
John Vernam & Co,.....	30,605		
Geo. H. Boughton & Co.,.....	30,840		4,053
Parmelee, White & Co.,.....	31,090	5,904	4,179
Ellicott & Bentley,.....	31,195		4,095
Oliver Charlick,.....	31,220		5,498
James Oswald & Co.,.....	31,960		
N. Osborn,.....	32,000		
J. P. Smith,.....	32,120		
Hugh M. Severance,.....	32,260		4,131
Peterson & Willard,.....	32,560		
Levi Allen,.....	32,600		
N. W. Baldwin,.....	32,988	7,104	3,194
Geo. M. Lanman,.....	33,620	7,792	4,677

Names of bidders.	Sections.	Culverts.	Bridge ab't's.
Thomas King, .....	\$33,750	\$8,074	\$5,075
Chas. Porter & Co., .....	33,830	7,993	5,383
Linus Jones Peck, .....	33,870		3,794
Truxton Burrill, .....	34,270		
James Burns, .....	34,295		
Walter I. Church, .....	34,310		
L. A. G. B. Grant, .....	34,620		4,435
Otis Turner, .....	35,170	7,372	4,531
Asa W. Douglass & Co., .....	35,220		
John T. Wright & Co., .....	35,270		4,858
Judson W. Sherman, .....	35,270		
Richard Church, .....	35,270		
Alonzo Newcomb, .....	36,975		
Saml. & John Everett, .....	36,230		
Kingsley & James, .....	36,450		
Sherman McLane, .....	36,790		
John Mabey, .....	36,790		
Bradley Sherman, .....	37,310		
Cleary & Smith, .....	41,900		
Henry S. Wells, .....		6,441	
B. & J. Carpenter, .....		7,273	3,908
Chamberlain & Bradley, .....			3,489
Field & Munger, .....			3,953
Martindale & Ferrell, .....			3,960
Wagner & Levings, .....			4,145
Asa D. Wood & Co., .....			4,280
I. B. Hughes, .....			4,341
Jackson & Hitchins, .....			4,410
Dudley Curtiss, .....			4,575
Edward Learned & Co., .....			4,853
James O. Spencer, .....			5,095

## SECTION No. 330.

Engineers' estimates, .....	\$41,425	\$4,360	\$3,760
Harvey E. Williams, .....	28,150		
Thompson & Nelson, .....	29,196		
Mills & Harwood, .....	30,920		
T. & Wm. Mills, .....	31,230		
Hague & Peters, .....	31,540		
Addison C. Moore, .....	31,940		
Wm. Candee & Co., .....	32,340		

Names of Bidders.	Sections.	Calverts.	Bridge abut.
John Hayes, .....	\$32,380		
Horatio N. Hewes, .....	32,880	\$4,234	\$3,710
Martindale & Ferrell, .....	32,970		3,650
G. H. Boughton & Co., .....	33,040		3,885
Chamberlain & Edgerton, .....	33,200		3,265
Barton & O'Maley, .....	33,330	4,865	
Gideon Hard, .....	33,665	5,275	3,540
Henry Cady, .....	33,670	5,365	4,520
Hawley & Barton, .....	34,690	4,345	3,280
John McCabe & Co., .....	34,900	6,616	
Barker & Talbot, .....	35,040		
Hilton & Terry, .....	35,140	4,345	3,420
Colton & Aikin, .....	35,210	4,790	4,114
Jonas Ingraham & Co., .....	35,390	5,630	
Angus P. McDonald, .....	35,710		
Sutton & Phillips, .....	35,740	4,860	3,300
Ryan & Swan, .....	36,110	4,810	3,645
Parmelee, White & Co., .....	36,220	4,710	3,905
Joseph & Jas. Peacock, jr., .....	36,330		
James Jackson, jr., .....	36,450	4,976	
Oliver Charlick, .....	36,570		5,142
Jacob Sawyer, .....	36,690	6,120	
James Burns, .....	36,735		
Heman Blodgett & Co., .....	36,880	6,170	
Ellicott & Bentley, .....	37,095		3,820
Linus Jones Peck, .....	37,190		3,624
John H. Nichols, .....	37,260		
J. P. Smith, .....	37,520		
Hugh M. Severance, .....	37,760		3,860
Thomas King, .....	38,000	4,140	4,755
Geo. M. Lanman, .....	38,100	6,100	4,376
Walter J. Church, .....	38,110		
Truxton Burrill, .....	37,270		
Wm. H. Scott, .....	38,510	6,960	4,280
L. A. G. B. Grant, .....	38,800		4,140
Sherman Mc Lean, .....	38,870		
N. Osborn, .....	39,050		
Richard Church, .....	39,050		
Judson W. Sherman, .....	39,050		
John T. Wright & Co., .....	39,170		
James Oswald & Co., .....	39,580		
John Vernam & Co., .....	39,700		
Chas. Porter & Co., .....	39,740	5,500	5,048
Samuel & John Everett, .....	40,180		
Levi Allen, .....	40,680		
Otis Turner, .....	40,730	5,700	4,237
Daniels & Douglass, .....	40,880		
S. Pierce & Co., .....	42,125	4,672	3,865
Bradley Sherman, .....	42,630		

Names of bidders.	Sections.	Culverts.	Bridge abut's.
John Mabee, .....	\$43,640		
Edward & Thomas Kerns, .....	44,900		
Cleary & Smith, .....	45,200		
Henry S. Wells, .....		\$4,790	
B. & J. Carpenter, .....		4,450	\$3,640
Chamberlain & Bradley, .....			3,257
Field & Munger, .....			3,698
Wagner & Levings, .....			3,870
Asa D. Wood & Co., .....			4,000
J. B. Hughes, .....			4,050
Jackson & Hitchins, .....			4,123
Dudley Curtiss, .....			4,275
Edward Learned & Co., .....			4,545

## SECTION No. 331.

Engineers' estimate, .....	<u>\$83,902</u>	<u>\$1,428</u>	<u>\$2,252</u>
Harvey E. Williams, .....	23,910		
Hague & Peters, .....	25,280		
Thompson & Nelson, .....	25,606		
T. & W. Mills, .....	26,640		
Mills & Harwood, .....	26,840		
Addison C. Moore, .....	27,020		
Wm. Candee & Co., .....	27,350		
Barker & Talbot, .....	27,500		
John Hayes, .....	27,685		
Martindale & Ferrell, .....	27,915		2,110
Geo. H. Boughton & Co., .....	28,090		2,223
Henry Cady, .....	28,510	1,723	2,600
John McCabe & Co., .....	29,390		
Barton & O'Maley, .....	29,455	1,386	
Milton A. Clyde & Co., .....	30,030	2,471	
Chamberlain & Edgerton, .....	30,110		1,870
Hilton & Terry, .....	30,400	1,470	1,963
Geo. Reynolds & Co., .....	30,506	1,311	2,251
Hawley & Barton, .....	30,950	1,282	2,067
Horatio N. Hewes, .....	31,030	1,599	2,107
James Jackson, Jr., .....	31,155	1,672	2,331
Jonas Ingraham & Co., .....	31,240	1,661	
Heman Blodgett & Co., .....	31,350	1,711	
Jacob Sawyer, .....	31,380	1,776	
Oliver Charlick, .....	31,560		2,952

James Burns,.....	\$31,605		
John Vernam & Co.,.....	31,745		
Angus P. McDonald,.....	32,420		
Truxton Burrill,.....	32,480		
Ellicott & Bentley,.....	32,635		\$2,210
James Oswald & Co.,.....	32,690		
J. P. Smith,.....	32,740		
Thomas King,.....	32,770	\$1,295	2,697
Ryan & Swan,.....	32,810		2,108
Linus Jones Peck,.....	32,930		2,072
Colton & Aikin,.....	33,100	1,489	2,436
Geo. M. Lanman,.....	33,120	1,905	2,564
Sutton & Phillips,.....	33,350	1,562	1,909
Wm. H. Scott,.....	33,400	2,233	2,477
Hugh M. Severance,.....	33,450		2,206
L. A. G. B. Grant,.....	33,470		2,400
S. Pierce & Co.,.....	33,995	1,338	2,211
John H. Nichols,.....	34,140		
Sherman McLane,.....	34,180		
N. Osborn,.....	34,590		
Peterson & Willard,.....	34,740		
Samuel & Jno. Everett,.....	35,180		
Levi Allen,.....	35,180		
Otis Turner,.....	35,810	1,717	2,406
Judson W. Sherman,.....	36,030		
Richard Church,.....	36,030		
John T. Wright & Co.,.....	36,030		2,612
Daniels & Douglass,.....	37,200		
John Mabee,.....	37,690		
Cleary & Smith,.....	38,440		
Charles Porter & Co.,.....	40,640	1,749	2,859
McPhee & McKain, .....	41,170		
Thomas Wilson,.....	46,960		
John W. Griffin,.....	47,540		
Chamberlain & Bradley,.....			1,868
Field & Manger,.....			2,154
Henry S. Wells,.....		1,457	
B. & I. Carpenter,.....		1,541	2,093
Wagner & Levings,.....			2,215
J. B. Hughes,.....			2,321
Asa D. Wood & Co.,.....			2,330
Jackson & Hitchins,.....			2,398
Dudley Curtiss, .....			2,432
James O. Spencer, .....			2,726
Edward Learned & Co.,.....			2,730



## SECTION No. 383.

Engineers' estimate, .....	<u>\$84,198</u>	<u>\$2,478</u>	<u>\$2,152</u>
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Names of bidders.	Sections.	Culverts.	Bridge abut'ts.
Harvey E. Williams, .....	23,610		
Wm. Candee & Co., .....	25,120		
Barker & Talbot, .....	27,865		
Thompson & Nelson, .....	27,951		
Hague & Peters, .....	29,890		
T. & W. Mills, .....	29,680		
Mills & Harwood, .....	29,920		
G. H. Boughton & Co., .....	30,090	2,012	2,223
A. C. Moore, .....	30,420		
Martindale & Ferrell, .....	30,730		2,110
Milton A Clyde & Co., .....	30,740	2,228	
John Hayes, .....	31,220		
Gideon Hard, .....	31,575	1,856	
Franklin Spaulding & Co., .....	31,620	1,904	2,270
John McOabe & Co., .....	32,130	3,222	
Geo. W. Peck, .....	32,350		2,183
Hawley & Barton, .....	32,410	2,011	1,897
James Oswald & Co., .....	32,685		
Henry Cady, .....	32,770	2,303	2,600
Barton & O'Maley, .....	32,830	2,184	
Chamberlain & Edgerton, .....	32,870		1,870
Geo. Reynolds & Co., .....	33,216	1,825	2,251
Ryan & Swan, .....	33,420		2,108
Horatio N. Hewes, .....	33,540	2,525	
Hilton & Terry, .....	33,700	2,108	1,963
James Jackson, jr., .....	33,860	2,343	2,331
Samuel C. Holden, .....	33,870		2,215
James Burns, .....	34,625		
Oliver Charlick, .....	34,960		2,952
Colton & Aikin, .....	35,110	2,298	2,436
Jonas Ingraham & Co., .....	35,240	2,359	
Jacob Lawyer, .....	35,320	2,107	
John Vernam & Co., .....	35,345		
J. P. Smith, .....	35,440		
Truxton Burrill, .....	35,720		
Thomas King, .....	36,270	1,925	2,697
Heman Blodgett & Co., .....	36,270	2,068	
Geo. M. Lanman, .....	36,500	2,571	2,564
Sutton & Phillips, .....	36,510	2,350	1,909
Ellicott & Bentley, .....	36,535		2,210
Angus P. McDonald, .....	36,660		
Linus Jones Peck, .....	36,810		2,072

Names of bidders.	Sections.	Culverts.	Bridge abut's.
L. A. G. B. Grant, .....	\$36,870		\$2,385
Hugh M. Severance, .....	37,250		2,206
N. Osborn, .....	37,540		
John H. Nichols, .....	37,750		
Peterson & Willard, .....	37,780		
Wm. H. Scott, .....	37,880	\$2,870	2,477
Asa W. Douglass & Co., .....	37,920		
John T. Wright & Co., .....	38,410		2,612
Samuel & John Everett, .....	38,630		
Sherman McLane, .....	38,830		
Levi Allen, .....	39,560		
Otis Turner, .....	39,770	2,257	2,406
Chas. Porter & Co., .....	40,140	2,609	2,859
Judson W. Sherman, .....	40,210		
Richard Church, .....	40,210		
Cleary & Smith, .....	42,400		
McPhee & McKaih, .....	46,850		
John W. Griffin, .....	49,060		
Thomas Wilson, .....	51,380		
Henry S. Wells, .....		2,040	
B. & J. Carpenter, .....		2,315	2,093
Chamberlain & Bradley, .....			1,868
Field & Munger, .....			2,154
S. Parmelee & Co., .....			2,251
Wagner & Levings, .....			2,215
Asa D. Wood & Co., .....			2,330
Jackson & Hitchins, .....			2,398
Nelson Howitt, .....			2,365
J. B. Hughes, .....			2,321
Dudley Curtis, .....			2,437
James O. Spencer, .....			2,726
Edward Learned & Co., .....			2,730

## SECTION No. 333.

Engineer's estimate, ..... \$47,390 \$5,410

Names of bidders.	Sections.	Culverts.
Harvey E. Williams, .....	\$30,400	
Thompson & Nelson, .....	32,861	
Milton A. Clyde & Co., .....	36,440	\$4,964
Hague & Peters, .....	37,620	
Hilton & Terry, .....	37,650	4,716

Names of Bidders.	Bidder's.	Cavalry.
Jonas Ingraham & Co., .....	\$37,690	\$5,705
John Hayes, .....	38,920	
Samuel Andrews, .....	39,310	4,247
Barker & Talbot, .....	39,710	
Wm. H. Scott, .....	39,830	4,985
Wm. Candee & Co., .....	42,535	
Franklin Spaulding & Co., .....	42,820	4,871
John McCabe & Co., .....	42,840	7,141
Hawley & Barton, .....	43,190	4,630
Alanson Webster, .....	43,485	5,025
N. W. Baldwin, .....	43,708	5,422
Chamberlain & Edgerton, .....	43,820	
Angus P. McDonald, .....	43,860	
S. Pierce & Co., .....	43,865	4,530
George Reynolds & Co., .....	43,926	4,511
Geo. H. Boughton & Co., .....	44,540	4,942
Barton & O'Maley, .....	44,715	4,821
Johnson & Harroun, .....	45,060	
John H. Nichols, .....	45,100	
Joseph & James Peacock, jr., .....	45,640	
Martindale & Ferrell, .....	45,855	
Ryan & Swan, .....	45,920	
Horatio N. Hewes, .....	46,140	5,737
Colton & Aikin, .....	46,160	5,225
Loonis Lyman, .....	46,240	
Geo. W. Peck, .....	46,450	4,797
Sutton & Phillips, .....	46,760	4,928
Asa W. Douglass & Co., .....	46,970	
James Oswald & Co., .....	46,985	
McPhee & McKain, .....	47,000	
Heman Blodgett & Co., .....	47,070	5,566
Truxton Burrill, .....	47,070	
Jacob Sawyer, .....	47,120	5,755
Gideon Hard, .....	47,150	4,827
Nathan G. King & Co., .....	47,270	5,589
N. Osborn, .....	47,390	
Samuel C. Holden, .....	47,570	
Addison C. Moore, .....	47,620	
James Jackson, jr., .....	47,710	5,217
Thomas Wilson, .....	47,760	
Oliver Charlick, .....	47,810	
Sherman McLean, .....	47,930	
L. A. G. B. Grant, .....	48,270	
Chas. Porter & Co., .....	48,440	5,005
John Vernam & Co., .....	48,570	
J. P. Smith, .....	48,740	
Hugh M. Severance, .....	49,100	
Ellicott & Bentley, .....	49,785	

John W. Griffin,.....	\$50,370	
Peterson & Willard,.....	50,900	
Mahlon L. Ross,.....	51,110	\$5,166
Kingsley & James,.....	51,220	
Nelson Hewitt, .....	51,490	5,165
Thomas King, .....	51,920	4,645
Geo. M. Lanman, .....	52,750	6,075
James Burns,.....	53,135	
Samuel & John Everett,.....	53,355	
G. D. & W. G. Goodale,.....	53,795	
Levi Allen,.....	53,860	
Henry Cady, .....	54,110	5,463
Otis Turner,.....	54,970	5,736
Linus Jones Peck,.....	55,410	
Horace Meech,.....	56,850	
Cleary & Smith,.....	57,800	
Judson W. Sherman,.....	58,510	
John T. Wright & Co.,.....	58,510	
Richard Church, .....	58,510	
Edward & Thomas Kerns, .....	61,300	
Henry S. Wells,.....		4,987
B. & J. Carpenter,.....		5,590

#### SECTION NO. 384.

Engineers' estimate,.....	\$42,026	\$4,360	\$4,132
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Names of Bidders.	Section.	Calverts. Bridge abut'n.	
Harvey E. Williams, .....	29,360		
Thompson & Nelson,.....	30,941		
Hague & Peters,.....	31,720		
Milton A. Clyde & Co.,.....	33,040	4,670	
Hilton & Terry,.....	34,190	4,233	3,638
Barker & Talbot, .....	34,540		
Wm. H. Scott, .....	34,830	4,203	4,580
Jonas Ingraham & Co., .....	35,010	5,007	
Samuel Andrews,.....	35,110	3,579	4,194
Wm. Candee & Co ,.....	36,515		
Geo. Reynolds & Co.,.....	37,045	4,096	4,179
John Hayes, .....	37,625		
Addison C. Moore, .....	38,020		
Franklin Spaulding & Co.,.....	38,090	4,336	4,210
John McCabe & Co.,.....	38,220	6,284	
Johnson & Harroun, .....	38,740		

Names of Bidders.	Sections.	Calverts.	Bridge abut's.
Asa W. Douglass,.....	\$39,090		
Nathan G. King & Co., .....	39,380	\$5,229	
S. Pierce & Co., .....	39,705	4,009	\$3,479
James Oswald & Co.,.....	39,805		
Angus P. McDonald,.....	40,090		
Hawley & Barton, .....	40,130	3,901	3,512
G. H. Boughton & Co.,.....	40,160	4,521	4,166
Joseph & James Peacock, Jr.,....	40,210		
Loomis Lyman, .....	40,880		
Martindale & Ferrel,.....	40,880		3,910
Chamberlain & Edgerton,.....	40,940		3,497
Colton & Aikin,.....	40,980	4,416	4,391
McPhee & McKain,.....	40,985		
Barton & O'Maley,.....	41,210	4,058	
Cha's Porter & Co.,.....	41,440	5,120	5,383
Sutton & Phillips, .....	41,560	4,238	3,534
N. W. Baldwin, .....	41,698	4,933	3,184
Heman Blodgett & Co., .....	41,790	5,299	
Jacob Sawyer,.....	41,840	5,299	
Horatio N. Hewes,.....	42,380	4,803	3,962
Samuel C. Holden,.....	42,440		4,148
Truxton Burrill, .....	42,450		
John Vernam & Co.,.....	42,540		
N. Osborn, .....	42,950		
John H. Nichols,.....	43,080		
Ryan & Swan, .....	43,090		3,906
Thomas King,.....	43,100	4,015	5,075
James Jackson, Jr., .....	43,260	4,896	4,381
Thomas Wilson,.....	43,385		
J. P. Smith, .....	43,540		
Oliver Charlick, .....	43,630		5,498
L. A. G. B. Grant,.....	43,650		4,410
H. W. Campbell, .....	43,900		
Hugh M. Severance,.....	43,980		4,131
Alanson Webster, .....	44,230	4,375	
Ellicott & Bentley, .....	44,265		4,095
Sherman McLean,.....	44,700		
Mahlon L. Ross, .....	45,390	4,512	4,533
Geo. M. Lanman,.....	45,760	5,854	4,832
Peterson & Willard,.....	45,980		4,256
Kingsley & James,.....	46,210		
Nelson Hewitt,.....	47,470	4,776	4,429
James Burns, .....	47,555		
Henry Cady,.....	47,990	4,883	4,835
Cleary & Smith,.....	48,720		
Sam'l & John Everett,.....	48,830		
Joha W. Griffin,.....	48,848		
Levi Allen, .....	48,860		

Otis Turner,.....	49,050	5,196	4,449
Horace Meech,.....	49,090		
G. D. & W. G. Goodale,.....	49,750		
L. J. Peck, .....	50,050		3,884
Edward & Thomas Kerns, .....	50,940		
John T. Wright & Co.,.....	52,650		4,858
Chamberlain & Bradley,.....			3,489
Field & Munger, .....			3,953
Wagner & Levings,.....			4,145
Asa D. Wood & Co.,.....			4,280
J. B. Hughes,.....			4,341
Jackson & Hitchens,.....			4,410
Dudley Curtiss, .....			4,580
Edward Learned & Co., .....			4,853
James O. Spencer, .....			5,095
Judson W. Sherman,.....	52,650		
Richard Church, .....	52,650		
Brainard & Edgerton,.....	80,932		
Henry S. Wells, .....		4,404	
B. & J. Carpenter, .....		4,816	3,908

#### SECTION No. 335.

Engineers' estimate,.....	<u>\$32,827</u>	<u>\$2,856</u>	<u>\$3,760</u>
Nelson Hewitt,.....	20,490		4,138
Harvey E. Williams,.....	20,490		
Thompson & Nelson,.....	24,521		
Jonas Ingraham & Co.,.....	25,980	2,812	
William H. Scott,.....	26,030	3,096	4,280
William Candee & Co., .....	26,935		
A. C. Moore,.....	27,180		
Barker & Talbot, .....	27,380		
G. W. Peck, .....	27,410		4,424
John Hayes,.....	28,370		
John McCabe & Co.,.....	28,440	3,629	
Hague & Peters, .....	28,460		
G. H. Boughton & Co.,.....	28,560	2,522	3,885
Chamberlain & Edgerton,.....	28,580		3,265
Loomis Lyman, .....	28,600		
Martindale & Ferrell,.....	29,695		3,650
Johnson & Harroun, .....	29,760		
Angus P. McDonald, .....	29,962		

[Assembly, No. 90.]

Names of bidders.	Sections.	Culverts.	Bridge ab'ns.
Barton & O'Maley,.....	\$29,970	\$2,287	
Hugh M. Severance,.....	30,020		\$3,860
Sutton & Phillips,.....	30,040	2,554	3,300
Oswald & Buell,.....	30,185		
Hawley & Barton,.....	30,390	2,094	3,280
Peterson & Willard,.....	30,400		3,975
H. W. Campbell,.....	30,480		
Henry Cady,.....	30,550	2,761	4,520
Milton A. Clyde & Co.,.....	30,820	2,699	
Ellicott & Bentley,.....	30,885		3,820
Colton & Aikin,.....	31,000	2,468	4,110
George Reynolds & Co.,.....	31,206	2,292	3,905
N. Osborn, .....	31,210		
John Vernam & Co.,... ..	31,220		
Heman Blodgett & Co.,.....	31,590	2,953	
Jacob Sawyer,.....	31,640	2,902	
James Jackson, Jr.,.....	31,820	3,014	4,100
Oliver Charlick,.....	31,930		5,142
Thomas King,.....	31,950	2,290	4,755
James Burns,.....	32,125		
Hilton & Terry,.....	32,150	2,525	3,400
Ryan & Swan,.....	32,760		3,645
Charles Porter & Co.,.....	32,840	3,038	5,048
Otis Turner,.....	33,010	2,754	4,160
Asa W. Douglass & Co.,.....	33,090		
Franklin Spaulding & Co.,.....	33,240	2,342	3,930
J. P. Smith,.....	33,300		
Mahlon L. Ross,.....	33,530	2,521	4,238
Kingsley & James,.....	33,580		
J. W. Sherman,.....	33,670		
Richard Church,.....	33,670		
Samuel & John Everett, .....	33,770		
Levi Allen,.....	34,500		
L. A. G. B. Grant,.....	34,570		4,140
Truxton Burrill,.....	34,570		
George M. Lanman,.....	34,670	2,490	4,530
Linus Jones Peck,.....	34,760		3,624
Alanson Webster,.....	34,790		
Horace Meech,.....	34,960		
J. H. Nichols,.....	35,030		
John T. Wright & Co.,.....	35,110		4,542
S. Pierce & Co.,.....	37,665	2,107	3,245
Chamberlain & Bradley, .....			3,257
Asa D. Wood & Co.,.....			3,400
Field & Munger,.....			3,698
Wagner & Levings,.....			3,870
J. B. Hughes,.....			4,050
Jackson & Hitchins,.....			4,123

Dudley Curtis,.....			\$4,280
Edward Learned & Co.,.....			4,545
James O. Spencer, .....			4,762
G. D. & W. G. Goodale,.....	\$37,790		
Cleary & Smith,.....	37,980		
McPhee & McKain,.....	35,095		
Thomas Wilson,.....	41,330		
John W. Griffin,.....	43,024		
Brainard & Edgerton,.....	57,970		
Henry S. Wells, .....		\$2,726	
Nathan G. King & Co.,.....		2,903	
B. & J. Carpenter,.....		2,726	3,640

# SECTION No. 336.

Engineers' estimate,.....	\$26,201	\$2,478	\$4,780
Harvey E. Williams,.....	20,210		
Thompson & Nelson,.....	21,811		
Joseph M. Demmon, .....	22,450		
Wm. Cande & Co.,.....	22,650		
A. C. Moore,.....	23,290		
Hague & Peters,.....	23,500		
Chamberlain & Edgerton, .....	24,140		3,715
Geo. W. Peck,.....	24,270		4,691
Henry Cady,.....	24,570	2,303	5,135
Barker & Talbot, .....	24,700		
Wm. H. Scott,.....	24,810	2,870	4,860
J. Oswald & Wm. Buell, Jr., ..	24,995		
W. L. & H. W. Lewis, .....	25,035	1,605	4,408
John Hayes, ...	25,110		
H. W. Campbell,.....	25,140		
Barton & O'Maley,.....	25,695	2,124	
Hawley & Barton,.....	25,820	2,011	3,732
G. H. Boughton & Co.,.....	25,930		4,431
Ellicott & Bentley, .....	26,145		4,350
Nelson Hewitt,.....	26,180		
Milton A. Clyde & Co.,.....	26,190		
Geo. Reynolds & Co.,.....	26,246	1,725	4,439
John Vernam & Co., .....	26,535		
Heman Blodgett & Co.,.....	26,590	2,043	
Jacob Lawyer,.....	26,660	1,960	
Linus Jones Peck, .....	26,900		4,124



Names of Builders.	Sections.	Culverts.	Bridge abut.
Hugh M. Severance, .....	\$27,040		\$4,397
Oliver Charlick, .....	27,230		5,836
H. Hilton & Terry, .....	27,240	\$2,183	3,858
Peterson & Willard, .....	27,360		4,521
Colton & Aikin, .....	27,750	2,298	4,656
Sutton & Phillips, .....	27,870	2,350	3,754
James Jackson, Jr., .....	28,160	2,343	4,646
J. P. Smith, .....	28,290		
Chris. Porter & Co., .....	28,340	2,559	5,700
Horace Meech, .....	28,570		
N. Osborn, .....	28,620		
Ryan & Swan, .....	28,740		4,151
James Burns, .....	28,785		
Levi Allen, .....	28,900		
L. A. G. B. Grant, .....	29,540		4,710
Truxton Burrill, .....	29,540		
Geo. M. Lanman, .....	29,565	3,056	5,117
Richard Church, .....	29,660		
John T. Wright & Co., .....	29,660		5,156
J. W. Sherman, .....	29,740		
Kingsley & James, .....	29,750		
Otis Turner, .....	29,750	2,257	4,722
Daniels & Douglass, .....	29,980		
Thomas King, .....	30,830	1,925	5,375
Franklin Spaulding & Co., ...	31,080	1,904	4,475
McPhee & McKain, .....	32,660		
Cleary & Smith, .....	32,830		
Jonas Ingraham & Co., .....	33,786	2,359	
John W. Griffin, .....	38,040		
John H. Nichols, .....	38,860		
Thomas Wilson, .....	39,080		
A. P. McDonald, .....	40,750		
Brainard & Edgerton, .....	51,310		
Henry S. Wells, .....		2,040	
B. & J. Carpenter, .....		2,315	4,158
Nathan G. King & Co., .....		2,049	
Chamberlain & Bradley, .....			3,707
Field & Munger, .....			4,190
S. Parmele & Co., .....			4,450
Asa D. Wood & Co., .....			4,545
Jackson & Hitchins, .....			4,682
J. B. Hughes, .....			4,616
Edward Learned & Co., .....			5,143
James O. Spencer, .....			5,413
Wagner & Levings, .....			4,405

## SECTION No. 337.

..... \$4,487

	Section.
.....	3,560
.....	3,700
.....	3,750
.....	3,935
.....	3,955
.....	3,975
.....	4,170
.....	4,180
.....	4,340
.....	4,360
.....	4,360
.....	4,360
.....	4,440
.....	4,480
.....	4,510
.....	4,750
.....	4,830
.....	4,830
.....	4,890
.....	4,910
.....	4,940
.....	4,975
.....	5,470
.....	5,900
.....	6,050
.....	6,600
.....	7,300
.....	8,570
.....	9,100
.....	9,820
.....	10,000
.....	10,960
.....	11,450

## SECTIONS 348 to 353.

Engineers' estimate,.....	<u>\$48,340</u>	<u>\$5,000</u>
Names of Bidders.	Sections.	Calverts.
Oswald & Buell, .....	37,850	
T. & W. Mills, .....	40,200	
C. Joslyn, .....	40,990	
H. W. Campbell, .....	43,930	
Jonas Ingraham & Co., .....	45,040	4,160
Samuel W. Crittenden, .....	45,240	
Mills & Harwood, .....	45,720	
Francis Hitchins & Co., .....	45,830	
Horace Meech, .....	46,160	
John H. Carr, .....	47,080	
Alonzo H. Scriven, .....	47,790	7,935
A. P. McDonald, .....	47,800	
John H. Nichols, .....	48,220	
Chamberlain & Edgerton, .....	48,260	
William H. Scott, .....	48,700	5,100
Wood & Clark, .....	48,890	
Richardson & Barton, .....	49,120	
Hugh M. Severance, .....	49,130	
Oliver Charlick, .....	50,210	
Linus Jones Peck, .....	51,540	
James Burns, .....	51,260	
George M. Larman, .....	53,260	
L. A. G. B. Grant, .....	56,290	
Colton & Aikin, .....	57,180	
Otis Turner, .....	57,540	
Saml. C. Holden, .....	60,260	
Franklin Field, & Co., ..	61,615	23,590
B. & J. Carpenter, .....		4,950
Henry S. Wells, .....		4,120

## SECTIONS 354 to 359.

Engineers' estimate,.....	<u>\$44,640</u>	<u>\$3,000</u>
Names of Bidders.	Sections.	Calverts.
Oswald & Buell, .....	35,750	
C. Joslin, .....	38,350	
T. & Wm. Mills, .....	39,480	
H. W. Campbell, ..	40,470	
Samuel W. Crittenden, .....	43,080	

Names of Bidders.	Sections.	Culverts.
Horace Meech, .....	44,660	
Jonas Ingraham & Co., .....	44,740	\$1,760
Mills & Harwood, .....	44,760	
Francis Hitchins & Co., .....	44,850	
A. P. McDonald, .....	45,640	
John H. Carr, .....	45,910	
Chamberlain & Edgerton, .....	46,280	
John H. Nichols, .....	46,420	
Richardson & Barton, .....	46,720	
William H. Scott, .....	46,900	2,120
Alonzo H. Scriven, .....	46,950	9,935
Wood & Clark, .....	47,090	
Otis Turner, .....	47,940	
Oliver Charlick, .....	49,010	
Linus Jones Peck, .....	50,340	
James Burns, .....	50,920	
Hugh M. Severance, ....	50,690	
Geo. M. Lanman, .....	50,860	
L. A. G. B. Grant, .....	53,050	
Colton & Aikin, .....	55,260	
Samuel C. Holden, .....	55,580	
Franklin Field & Co., .....	58,075	11,390
Henry S. Wells, .....		1,720
B. & J. Carpenter, .....		2,310

## SECTION No. 360.

Engineers' estimate, .....	\$42,502	\$7,200	\$1,880
Names of Bidders.	Sections.	Culverts.	Bridge abat.
Wm. Candee & Co., .....	29,160		
Mills & Harwood, .....	30,600		
Oswald & Buell, .....	31,300		
Wm. H. Scott, .....	32,720	6,295	2,177
Geo. H. Boughton & Co., .....	33,180		1,942
Jonas Ingraham & Co., .....	33,485	5,720	
Hague & Peters, .....	33,550		
T. & Wm. Mills, ..	33,940		
Andrew Cole, .....	34,835		
.....	35,330		
Barton & O'Maley, .....	35,760	8,234	
Peterson & Willard, .....	37,090		2,007
Alonzo H. Scriven, .....	37,815		2,027
Sutton & Phillips, .....	38,005	5,620	1,675

Names of Bidders.	Sections.	Calverts.	Bridge abut.
Oliver Charlick,.....	\$38,100		\$2,596
Horace Meech,.....	38,380		
John McCabe & Co.,.....	38,540	\$7,607	
Mahlon L. Ross,.....	39,020	5,440	2,144
John Hayes,.....	39,930		
Linus Jones Peck,.....	40,840		1,672
Harrison Park,.....	41,327		
Wood & Clark,.....	41,520		2,050
Kingsley & James,.....	41,800		
Clark & Tift,.....	41,925	6,190	1,727
Hitchins & Daniels,.....	42,040		
Cleary & Smith,.....	42,090		
Saml. W. Crittenden,.....	42,100		
Gerge M. Lanman,.....	42,170	6,595	2,415
James Burns,.....	43,190		
Henry Cady,.....	43,600		
Otis Turner,.....	43,730		2,250
Alanson Webster,.....	43,770	5,265	
L. A. G. B. Grant,.....	45,940		2,180
Blossom & Koch,.....	46,690	6,465	
Field & Munger,.....	46,740	6,906	1,890
Jacob Hinds,.....	47,060		
Chamberlain & Edgerton,.....	47,300		1,638
Hugh M. Seveance,.....	48,125		1,939
Solomon Parmelee & Co.,.....	48,750	4,717	2,127
Henry S. Wells,.....	48,985	5,310	
John H. Nichols,.....	51,670		
Colton & Aikin,.....	52,500		
Marlindale & Ferrell,.....			2,160
James O. Spencer,.....			2,398
Hugh Wheeler,.....			2,347
Edward Learned & Co.,.....			2,422
Hugh McMillen,.....			2,657
A. P. McDonald,.....	57,630		
Richard Church,.....	60,450		
Judson W. Sherman,.....	60,450		
John T. Wright & Co.,.....	60,450		2,296
Bradley Sherman,.....	63,770		
Brainard & Edgerton,.....	76,100		
B. & I. Carpenter,.....		5,655	1,825
Chamberlain & Bradley,.....			1,636
M. A. Harrington,.....			1,728
Wagner & Levings,.....			1,940
Ellicott & Bentley,.....			2,060
I. B. Hughes,.....			2,080

## SECTION No. 361.

Engineer's estimate,.....	\$88,630	\$1,880
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Names of Bidders.	Sections.	Bridge abut's.
Hague & Peters,.....	\$59,280	
Oswald & Buell,.....	62,900	
Williams & Palmeter,.....	65,000	
Jonas W. Goodrich,.....	65,960	
John McCabe & Co.,.....	65,890	
Wm. Candee & Co.,.....	66,770	\$1,672
Linus Jones Peck,.....	71,360	
Jacob Hinds,.....	72,350	
Jonas Ingraham,.....	72,620	
Johnson & Harroun,.....	73,920	
Loomis Lyman,.....	74,663	
Wm. H. Scott,.....	75,580	2,177
Mills & Harwood,.....	75,600	
Andrew Cole,.....	79,460	
Theodore D. Barton,.....	80,720	
Henry Cady,.....	81,750	
Martindale & Terrell,.....	82,780	2,160
G. H. Boughton & Co.,.....	83,380	2,942
Chamberlain & Edgerton,.....	84,200	1,638
Horace Meech,.....	85,580	
Alonzo H. Scriven,.....	86,020	2,027
L. A. G. B. Grant,.....	88,090	2,180
Wood & Clark,.....	88,950	2,250
Sutton & Phillips,.....	89,880	1,675
James Burns,.....	90,290	
Hitchins & Daniels,.....	94,470	
Alanson Webster,.....	95,660	
Otis Turner,.....	100,020	2,250
John H. Nichols,.....	100,320	
Field & Munger,.....	102,920	1,899
Solomon Parmele & Co.,.....	105,040	2,127
A. P. McDonald,.....	106,780	
Blossom & Koch,.....	110,140	
Hugh M. Severance,.....	110,600	1,939
Clark & Tift,.....	113,450	1,727
Colton & Aikin,.....	114,580	
Judson W. Sherman,.....	118,890	
Richard Church,.....	118,890	
John T. Wright & Co.,.....	118,890	2,236
Barton & O'Maley,.....	123,110	
Harrison Park,.....	125,260	
Oliver Charlick,.....	126,850	2,596

Names of Bidders.	Sections.	Bridge abut's.
Bradley Sherman, .....	\$128,370	
Geo. M. Lanman, .....	134,460	\$2,415
Andrew Kingsley & James, .....	139,200	
John Hayes, .....	141,530	
Peterson & Willard, .....	143,940	2,007
Mahlon L. Ross, .....	143,970	2,144
Wm. Scott, .....	145,620	
Henry S. Wells, .....	153,260	
Brainard & Edgerton, .....	220,580	
Chamberlain & Bradley, .....		1,636
Hawley & Barton, .....		1,665
M. A. Harrington, .....		1,713
B. & J. Carpenter, .....		1,825
Wagner & Levings, .....		1,940
Ellicott & Bentley, .....		2,060
J. B. Hughes, .....		2,105
Hugh Wheeler, .....		2,347
James O. Spencer, .....		2,393
Edward Learned, .....		2,422
Hugh McMillen, .....		2,509

## SECTION No. 362.

Engineers' estimate, .....	\$79,730	\$3,158	\$1,890
	<u>          </u>	<u>          </u>	<u>          </u>
Names of Bidders.	Sections.	Culverts.	Bridge abut's.
Hague & Peters, .....	53,100		
Jonas W. Goodrich, .....	55,930		
Williams & Palmeter, .....	57,875		
Wm. Candee & Co., .....	58,740		
John McCabe & Co., .....	59,110		
Johnson & Harroun, .....	65,240		
Jonas Ingrahan & Co., .....	65,700	2,429	
Oswald & Buell, .....	66,170		1,670
Jacob Hinds, .....	66,230		
Mills & Harwood, .....	66,460		
Loomis Lyman, .....	67,819		
T. D. Barton, .....	68,140		
Wm. M. Scott, .....	68,240	2,840	2,177
Linus Jones Peck, .....	72,020		1,672
Chamberlain & Edgerton, .....	72,090		1,638
Andrew Cole, .....	72,145		
Martindale & Ferrell, .....	72,630		2,160

	Sections.	Calverts.	Bridge abut'ts.
.....	\$72,640		
.....	73,720		
.....	75,790		\$2,027
.....	76,460		1,942
.....	78,160		2,180
.....	79,100		2,050
.....	79,600		
.....	80,370		
.....	81,105	\$2,280.	1,675
...	85,750	2,438	
...	88,390		2,250
...	89,690		
...	94,530	3,027	1,899
..	95,650		
..	95,895	2,707	1,727
..	96,990		
.	97,575		1,939
.	99,910	1,936	2,127
.	101,180		2,596
.	102,700		
.	105,950		2,296
.	105,950		
.	106,010	2,339	
.	107,200		
.	109,310		2,007
.	111,360		
.	114,230		
.	115,370		
.	120,040	3,116	2,415
.	126,650		
.	128,090	2,521	2,144
.	133,135	2,140	
.	186,930		
		2,151	1,665
		2,405	1,825
			1,636
			1,940
			2,060
			2,105
			2,247
			2,393
			2,422
			517



## SECTION 363.

Engineers' estimates,.....	\$40,830	\$1,880
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Names of bidders.	Sections.	Bridge abut'rs.
Wm. Candee & Co.,.....	29,610	
Mills & Harwood,.....	30,750	
Jonas Ingraham,.....	33,720	
Andrew Cole,.....	33,950	
Hague & Peters,.....	34,000	
Barton & O'Maley,.....	34,535	
Horace Meech,.....	35,230	
Oswald & Buell,.....	35,340	1,670
Mills & Mills,.....	35,680	
Wm. H. Scott,.....	35,760	2,177
John McCabe & Co.,.....	36,030	
Martindale & Ferrell,.....	36,380	2,160
Samuel W. Crittenden,.....	36,600	
A. H. Scriven,.....	36,840	2,027
Sutton & Phillips,.....	37,320	1,675
Loomis Lyman,.....	37,675	
Chamberlain & Edgerton,.....	37,910	1,638
Oliver Charlick,.....	38,050	2,596
E. & T. Kearns,.....	38,656	
Mahlon L. Ross,.....	39,170	2,144
Peterson & Willard,.....	39,440	2,007
Geo. M. Lanman,.....	39,870	2,415
G. H. Boughton & Co.,.....	39,980	1,942
Harrison Park,.....	40,102	
L. A. G. B. Grant,.....	40,590	2,180
Sawin & Barnes,.....	40,620	2,035
Clark & Tift,.....	41,050	1,727
Kingsley & James,.....	41,200	
James Burns,.....	43,490	
Hitchins & Daniels,.....	44,920	
Otis Turner,.....	44,180	2,270
John T. Wright & Co.,.....	45,750	2,296
Richard Church,.....	45,750	
Judson W. Sherman,.....	45,750	
Wood & Clark,.....	45,810	2,050
John Hayes,.....	46,330	
Cleary & Smith,.....	47,040	
Field & Munger,.....	47,340	1,899
Blossom & Koch,.....	47,440	
Hugh M. Severance,.....	48,500	1,939
Linus Jones Peck,.....	48,940	1,672

Henry S. Wells,.....	\$49,360	
Bradley Sherman, .....	49,570	
John H. Nichols,.....	52,120	
Colton & Aikin,.....	52,980	
Solomon Parmele & Co.,.....	56,200	\$2,127
A. P. McDonald,.....	58,080	
Brainard & Edgerton, .....	81,270	
Chamberlain & Bradley,.....		1,636
B. & J. Carpenter,.....		1,825
Wagner & Levings,.....		1,940
Ellicott & Bentley,.....		2,060
J. B. Hughes, .....		2,105
Hugh Wheeler, .....		2,347
James O. Spencer, .....		2,393
Edward Leonard & Co.,.....		2,422
Hugh McMillen, .....		2,669

### SECTION NO. 364.

Engineers' estimate,.....	37,198	1,880
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Names of Bidders.	Sections.	Bridge abut's.
Wm. Candee & Co.,.....	26,934	
Mills & Harwood, .....	27,220	
Hague & Peters,.....	28,834	
Jonas Ingraham,.....	30,456	
Mills & Mills,.....	30,624	
Oswald & Buell,.....	31,276	1,670
Moses Baker, .....	31,306	
Hugh M. Severance, .....	31,402	1,939
Barton & O'Maley,.....	31,716	
Andrew Cole, .....	31,852	
Wm. H. Scott,.....	31,864	2,177
Martindale & Ferrell, .....	32,020	2,160
Alonzo H. Scriven, .....	32,860	2,027
Horace Meech, .....	33,252	
Sam'l W. Crittenden,.....	33,404	
John McCabe & Co., .....	33,644	
Sutton & Phillips, .....	33,656	1,675
John Hayes, .....	33,874	
Loomis Lyman, .....	34,127	
Oliver Charlick,.....	34,386	2,596
Chamberlain & Edgerton,.....	34,946	1,638

Names of Bidders.	Sections.	Bridge about.
L. A. G. B. Grant, .....	\$36,294	\$2,180
Geo. M. Lanman, .....	36,406	2,415
Sawin & Barnes, .....	36,724	2,035
Alanson Webster, .....	36,900	
Harrison Park, .....	36,951	
Clark & Tift, .....	37,574	1,727
Mañlon L. Ross, .....	38,774	2,144
James Burns, .....	39,026	
Otis Turner, .....	39,484	2,070
Hitchins & Daniels, .....	40,276	
Linus Jones Peck, .....	40,512	1,672
Wood & Clark, .....	40,630	2,050
Richard Church, .....	40,822	
John T. Wright & Co., .....	40,822	2,296
Judson W. Sherman, .....	40,822	
Field & Munger, .....	41,812	1,899
Wagner & Levings, .....		1,940
G. H. Boughton & Co., .....		1,942
Peterson & Willard, .....		2,007
Ellicott & Bentley, .....		2,060
J. B. Hughes, .....		2,105
Hugh Wheeler, .....		2,322
James O. Spencer, .....		2,393
Edward Learned & Co., .....		2,422
Hugh McMillen, .....		2,671
Cleary & Smith, .....	41,816	
Blossom & Koch, .....	42,080	
Bradley Sherman, .....	44,242	
Henry S. Wells, .....	44,580	
A. P. McDonald, .....	45,884	
John H. Nichols, .....	46,424	
Michael Werley, .....	46,638	
Colton & Aikin, .....	47,748	
Solomon Parmelee & Co., .....	49,704	2,125
Brainard & Edgerton, .....	67,804	
Chamberlain & Bradley, .....		1,636
B. & J. Carpenter, .....		1,825

## SECTION No. 365.

Engineers' estimate, .....	\$37,110	\$1,880
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Names of Bidders.	Sections.	Bridge about.
Wm. Candee & Co., .....	26,620	
Hague & Peters, .....	28,570	
Edwd & Thomas Kerns, .....	29,500	

Jonas Ingraham, .....	\$30,280	
Hugh M. Severance, .....	30,650	\$1,939
Oswald & Buell, .....	31,100	1,670
Martindale & Ferrell, .....	31,580	2,160
Wm. H. Scott, .....	31,600	2,177
Andrew Cole, .....	31,720	
Oliver Charlick, .....	32,110	2,596
A. H. Scriven, .....	32,640	2,027
John McCabe & Co., .....	33,390	
Saml. W. Crittenden, .....	33,640	
Horace Meech, .....	34,400	
Sutton & Phillips, .....	34,980	1,675
John Hayes, .....	35,370	
Clark & Tift, .....	35,790	1,727
Chamberlain & Edgerton, .....	35,870	1,638
Geo. M. Lanman, .....	36,230	2,415
Alanson Webster, .....	36,310	
Swain & Barnes, .....	36,460	2,035
Truxton Burrill, .....	37,720	
Harrison Park, .....	37,987	
Barton & O'Maley, .....	38,440	
Mahlon L. Ross, .....	38,510	2,144
James Burns, .....	38,850	
Hitchins & Daniels, .....	39,150	
Otis Turner, .....	39,220	2,270
L. A. G. B. Grant, .....	39,230	2,180
Linus Jones Peck, .....	40,160	1,672
Field & Munger, .....	40,460	1,899
John T. Wright & Co., .....	40,470	2,296
Richard Church, .....	40,470	
J. W. Sherman, .....	40,470	
Wood & Clark, .....	40,510	2,050
Cleary & Smith, .....	41,200	
Blossom & Koch, .....	41,640	
Bradley Sherman, .....	43,890	
Henry S. Wells, .....	44,360	
A. P. McDonald, .....	45,620	
John H. Nichols, .....	46,160	
Colton & Aikin, .....	47,660	
Solomon Parmelee & Co., .....	49,440	2,127
Michael Werley, .....	62,580	
Brainard & Edergton, .....	67,970	
Chamberlain & Bradley, .....		1,636
B. & I. Carpenter, .....		1,825
Wagner & Levings, .....		1,940
G. H. Boughton & Co., .....		1,942
Ellicott & Bentley, .....		2,060
Peterson & Willard, .....		2,007

J. B. Hughes,.....	Bridge abut.
Hugh Wheeler,.....	\$2,105
Hugh McMillen,.....	2,322
James O. Spencer,.....	2,360
	2,393

## SECTION No. 366.

Engineers' estimate,.....	Sections.
	\$73,778
Hague & Peters,.....	58,910
Edward & Thomas Kerns,.....	63,890
Samuel W. Crittenden,.....	64,840
Jonas W. Goodrich,.....	66,500
Williams & Parmenter,.....	69,400
John McCabe & Co.,.....	71,320
Sawin & Barnes,.....	75,960
Sutton & Phillips,.....	76,300
Linus Jones Peck,.....	77,080
Chamberlin & Edgerton,.....	77,670
Wm. Candee & Co.,.....	78,260
Truxton Burrill,.....	78,420
Mills & Harwood,.....	78,820
Jonas Ingraham,.....	80,130
Loomis Lyman,.....	80,755
Andrew Cole,.....	83,180
Wm. H. Scott,.....	84,920
Martindale & Ferrell,.....	91,380
Oswald & Buell,.....	93,560
Horace Meech,.....	94,200
James Burns,.....	98,650
Hitchins & Daniels,.....	104,450
A. P. McDonald,.....	107,320
John H. Nichols,.....	107,860
Alanson Webster,.....	110,000
Otis Turner,.....	111,060
Barton & O'Maley,.....	111,140
John T. Wright & Co.,.....	112,310
Richard Church,.....	112,310
J. W. Sherman,.....	112,310
Oliver Charlick,.....	113,710
Field & Munger,.....	117,240
Hugh M. Severance,.....	119,100
Blossom & Koch,.....	122,210
Clark & Tift,.....	122,890
Bradley & Sherman,.....	123,590
Peterson & Willard,.....	125,480

	Sections.
Harrison Park,.....	\$128,625
Wood & Clark,.....	130,880
Kingsley & James,.....	132,720
Geo. M. Lanman,.....	134,260
John Hayes,.....	137,870
Mahlon L. Ross,.....	140,410
L. A. G. B. Grant,.....	143,630
Henry S. Wells,.....	181,160
Brainard & Edgerton,.....	245,770

## SECTION No. 367.

Engineers' estimate,.....	\$58,400	\$7,020
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Names of Bidders.	Sections.	Culverts.
Hague & Peters,.....	31,870	
Wm. Candee & Co.,.....	36,100	
Mills & Harwood,.....	38,960	
John McCabe & Co.,.....	39,780	
Mills & Mills,.....	39,980	
Andrew Cole,.....	42,210	
Chamberlain & Edgerton,.....	42,670	
Horace Meech,.....	43,770	
Oswald & Buell,.....	44,260	
Truxton Burrill,.....	44,760	
Loomis Lyman,.....	44,980	
Sawin & Barnes,.....	45,860	7,615
Jonas Ingraham & Co.,.....	46,330	6,400
Linus Jones Peck,.....	46,380	
Alanson Webster,.....	47,060	6,090
James Burns,.....	49,350	
Peterson & Willard,.....	49,420	
Wm. H. Scott,.....	50,420	
Hitchins & Daniels,.....	50,910	
Michael Werley,.....	51,700	
Otis Turner,.....	52,460	
Sutton & Phillips,.....	53,610	6,250
John T. Wright & Co.,.....	53,710	
Richard Church,.....	53,710	
J. W. Sherman,.....	53,710	
Barton & O'Maley,.....	53,740	8,785
Harrison Park,.....	53,865	
Samuel W. Crittenden,.....	53,940	
Hugh M. Severance,.....	54,020	
Clark & Tift,.....	54,590	6,755

[Assembly, No. 90.]

Names of Bidders.	Sections.	Culverts.
Oliver Charlick, .....	\$56,500	
Field & Munger, .....	56,670	\$7,375
Wood & Clark, .....	57,230	
Blossom & Koch, .....	57,300	
Angus P. McDonald, .....	57,320	
John H. Nichols, .....	57,860	
Bradley Sherman, .....	58,510	
L. A. G. B. Grant, .....	63,470	
Geo M. Lanman, .....	65,520	7,360
Kingsley & James, .....	66,520	
Mahlon L. Ross, .....	67,160	5,795
Henry S. Wells, .....	69,720	5,790
Brainard & Egerton, ...	103,650	
B. & J. Carpenter, .....		6,765

## SECTION No. 368.

Engineers' estimate, .....	\$23,520	\$2,252
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Names of Bidders.	Sections.	Bridge abut.
Hague & Peters, .....	14,810	
Mills & Harwood, .....	15,260	
Mills & Mills, .....	15,760	
Wm. Candee & Co., .....	15,960	
Horace Meech, .....	17,500	
Sutton & Phillips, .....	18,160	1,909
Chamberlain & Edgerton, .....	19,310	1,870
Ball & Barton, .....	19,480	
Linus Jones Peck, .....	19,480	1,912
Cleary & Smith, .....	19,650	
James Burns, .....	20,070	
Hugh M. Severance, .....	21,000	2,211
Oswald & Buell, .....	21,080	
Barton & O'Maley, .....	21,220	
Loomis Lyman, .....	21,520	
Otis Turner, .....	21,360	2,581
Wood & Clark, .....	22,700	2,330
Andrew Cole, .....	22,740	
John T. Wright & Co., .....	22,860	2,612
Richard Church, .....	22,860	
J. W. Sherman, .....	22,860	
Oliver Charlick, .....	22,920	2,952

Names of Bidders.	Sections.	Bridge abut.
Blossom & Koch, .....	\$23,120	
Henry S. Wells, .....	23,380	
Wm. H. Scott, .....	23,860	\$2,477
John McCabe & Co., .....	24,940	
Bradley Sherman, .....	24,950	
L. A. G. B. Grant, .....	25,290	2,485
Jonas Ingraham, .....	25,840	
Clark & Tift, .....	28,060	1,957
Field & Munger, .....	28,790	2,154
Geo. M. Lanman, .....	28,840	2,717
John H. Nichols, .....	28,930	
Mahlon L. Ross, .....	30,180	2,409
A. P. McDonald, .....	31,660	
Brainard & Eginton, .....	40,190	
Chamberlain & Bradley, .....		1,868
Richardson & Barton, .....		2,057
B. & J. Carpenter, .....		2,093
Wagner & Levings, .....		2,215
Geo. H. Boughton & Co, ....		2,223
Ellicott & Bently, .....		2,345
J. B. Hughes, .....		2,406
James O. Spencer, .....		2,726
Edward Learned & Co., .....		2,730
Hugh Wheeler, .....		2,861
Hugh McMillen, .....		3,000

## SECTION No. 369.

Engineers' estimate, ..... \$34,521      \$2,252

Names of bidders.	Sections.	Bridge abut.
Mills & Harwood, .....	20,860	
William Candee & Co., .....	21,560	
Hague & Peters, .....	21,610	
Mills & Mills, .....	22,160	
Carmichael & Chapman, .....	23,390	
Horace Meech, .....	25,600	
Chamberlain & Edgerton, .....	26,910	1,870
Alanson Webster, .....	27,740	
James Burns, .....	28,070	
Ball & Barton, .....	28,280	
Linus Jones Peck, .....	28,480	1,912



Names of Bidders.	Section.	Bridge abut.
Hugh M. Severance,.....	\$29,800	\$2,211
Otis Turner,.....	29,860	2,581
Andrew Cole,.....	30,740	
John T. Wright & Co.,.....	30,860	2,612
Richard Church,.....	30,860	
J. W. Sherman,.....	30,860	
Oswald & Buell,.....	31,080	
Barton & O'Maley,.....	31,120	
Blossom & Koch,.....	31,520	
Henry S. Wells,.....	31,780	
Wood & Clark,.....	32,000	2,330
Jonas Ingraham,.....	32,240	
Oliver Charlick,.....	33,720	2,952
Bradley Sherman,.....	33,750	
William H. Scott,.....	33,860	2,489
L. A. G. B. Grant,.....	34,290	2,485
John McCabe & Co.,.....	34,940	
Field & Munger,.....	37,990	2,154
John H. Nichols,.....	38,930	
Geo. M. Lanman,.....	39,240	2,717
Clark & Tift,.....	42,580	1,957
A. P. McDonald,.....	43,660	
Chamberlain & Bradley,.....		1,868
Sutton & Phillips,.....		1,909
Richardson & Barton,.....		2,051
B. & J. Carpenter,.....		2,093
Wagner & Levings,.....		2,215
G. H. Boughton & Co.,.....		2,223
Ellicott & Bentley,.....		2,345
J. B. Hughes,.....		2,406
James O. Spencer,.....		2,726
Edward Learned & Co.,.....		2,730
Hugh Wheeler,.....		2,861
Hugh McMillen,.....		3,154

## SECTION No. 370.

Engineers' estimate,..... \$65,048    \$2,252

Names of Bidders.	Section.	Bridge ab'ts.
William H. Scott.....	45,460	2,177
Andrew Cole.....	51,120	
Jonas Ingraham.....	51,220	
Hague & Peters.....	52,480	
Jonas W. Goodrich.....	53,860	
Carmichael & Chapman.....	54,800	
C. J. & Henry De Graw,.....	55,540	
Clark & Tift.....	55,880	1,727
Barton & O'Maley.....	55,900	
Ball & Barton.....	55,890	
Blossom & Koch....	59,420	
Martindale & Ferrell.....	60,850	
Horace Meech.....	62,150	
Chamberlain & Edgerton.....	62,290	1,638
John McCabe & Co.....	62,380	
Mills & Harwood.....	62,560	
Henry S. Wells.....	63,820	
Oliver Charlick.....	64,870	2,596
Field & Munger.....	64,720	1,899
A. P. McDonald.....	65,300	
George M. Lanman.....	66,890	2,415
Samuel C. Holden.....	67,325	
Hugh M. Severance.....	69,420	1,939
Johnson & Harroun.....	70,080	
Moses Baker.....	70,761	
George H. Boughton & Co.....	71,300	1,942
Wood & Clark.....	72,200	2,050
Judson W. Sherman.....	72,420	
Richard Church.....	72,420	
John T. Wright & Co.....	72,420	2,296
L. A. G. B. Grant.....	74,780	2,180
John H. Nichols.....	75,320	
Otis Turner.....	81,300	2,270
Bradley Sherman.....	88,240	
Oswald & Buell.....	88,200	
Brainard & Eginton.....	90,260	
William Candee & Co.....	91,340	
Linus Jones Peck.....	190,420	1,672
Chamberlain & Bradley.....		1,636
Sutton & Phillips.....		1,675

Names of bidders.	Sections. Bridge ab'ts.
Richardson & Barton.....	\$1,825
B. & J. Carpenter.....	1,825
Wagner & Levings.....	1,940
Ellicott & Bentley.....	2,060
J. B. Hughes.....	2,105
Alonzo H. Scriven.....	2,232
Hugh McMillin.....	2,339
James O. Spencer.....	2,397
Edward Learned & Co.....	2,422
Hugh Wheeler.....	2,847

### GUARD LOCK AT BLACK ROCK.

Engineers' estimate, ..... \$26,730

Names of bidders.	
Henry Barnes.....	20,885
Sutton & Phillips.....	23,340
Ball & Barton.....	23,945
Clark & Tift.....	25,095
Francis Hitchins & Co.....	25,130
Alonzo H. Scriven.....	25,320
G. H. Boughton & Co.....	25,415
William Buell, Jr., & Co.....	26,025
Blossom & Koch.....	26,765
B. & J. Carpenter.....	26,625
Sawin & Barnes.....	27,385
Field & Munger.....	28,135
Peterson & Willard.....	29,060
Wood & Clark.....	31,755
George M. Lanman.....	33,800
Oliver Charlick.....	36,215
Robert Fero & J. D. Gross.....	36,195

## WASTE-WEIRS.

Engineer's estimate, .....	<u>\$1,080</u>	<u>\$300</u>	<u>\$1,490</u>
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Names of Bidders.	Section 330.	Section 337.	Section 380.
S. Pierce & Co., .....	875		
Hilton & Terry, .....	955		
J. B. Hughes, .....	1,038	420	1,678
Chamberlain & Bradley, .....	1,124	415	1,714
Geo. M. Lanman, .....	1,135	547	1,782
Sutton & Phillips, .....	1,180		1,735
B. & J. Carpenter, .....	1,205	340	1,735
Thomas King, .....	1,425	600	
Ingraham & Bolles, .....	1,555	550	2,030
Wm. H. Scott, .....	1,985	500	1,895
Hawley & Barton, .....		460	
Alanson Webster, .....			1,527
Alonzo H. Scriven, .....			1,807
Clark & Tift, .....			2,584
Blossom & Koch, .....			2,842
Field & Munger, .....			2,942



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